

Operation Manual

NAVIGATION AV SYSTEM

AVIC-F30BT AVIC-F930BT

Be sure to read **Important Information for the User** first!

Important Information for the User includes the important information that you must understand before using this navigation system.

Thank you for buying this Pioneer product.

Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

[Important

The screens shown in the examples may differ from actual screens.

Actual screens may be changed without notice for performance and function improvements.

1 Introduction

Manual overview 8

- How to use this manual 8
- Conventions used in this manual 8
- Terms used in this manual 8

Notice regarding video viewing 9

Notice regarding DVD-Video viewing 9

Notice regarding MP3 file usage 9

iPod compatibility 9
Map coverage 10

Protecting the LCD panel and screen 10

Notes on internal memory 10

- Before removing the vehicle battery 10
- Data subject to erasure 10

Basic operation

Checking part names and functions 11

Protecting your product from theft
 Adjusting the LCD panel angle
 Inserting and ejecting a disc
 14

- Inserting a disc (for AVIC-F30BT) 14
- Ejecting a disc (for AVIC-F30BT) 15
- Inserting a disc (for AVIC-F930BT)
- Ejecting a disc (for AVIC-F930BT)
 Inserting and ejecting an SD memory

card 15

- Inserting an SD memory card (for AVIC-F30BT)
- Ejecting an SD memory card (for AVIC-F30BT) 16
- Inserting an SD memory card (for AVIC-F930BT)17

 Ejecting an SD memory card (for AVIC-F930BT) 17

Plugging and unplugging a USB storage device **18**

- Plugging in a USB storage device 18
- Unplugging a USB storage device 18
 Connecting and disconnecting an iPod 18
 - Connecting your iPod 19
 - Disconnecting your iPod 19

Startup and termination 19

On first-time startup 19 Regular startup 20

(B) How to use the navigation menu screens

Screen switching overview 22

What you can do on each menu 23

Shortcut Menu 23

- Selecting the shortcut 23
- Removing a shortcut 24

Operating list screens (e.g. POI list) 24

Operating the on-screen keyboard 24

(14) How to use the map

How to read the map screen 25

- Enlarged map of the intersection 26
- Display during motorway driving 27

Types of the road stored in the map database 27

Operating the map screen 27

- Changing the scale of the map 27
- Switching the map orientation 28
- Scrolling the map to the position you
- want to see **28** Viewing information about a specified
- Viewing information about a specified location 28
- Using shortcut menus on the map 29
 Switching the view mode 30

(15) Eco-friendly driving functions

Checking the eco-friendly driving status 32
Displaying Eco Drive Level guidance 33
Sudden start alert 33

16 Searching for and selecting a location	 Registering a location by
The basic flow of creating your route 34	"Favourites" 46
Searching for a location by address 35	 Registering a location by scroll
 Searching for a street name first 35 	mode 46
 Searching for a city name first 36 	Editing registered locations 46
Setting up a route to your home 37	 Editing the favourite location in the
Searching for Points of Interest (POI) 37	list 46
 Searching for POIs by preset 	Editing your home 47
categories 37	 Sorting the favourite locations in the
 Searching for a POI directly from the 	list 47
name of the facilities 37	 Deleting a favourite location from the
Searching for a nearby POI 38	list 48
 Searching for POIs around the 	Exporting and importing favourite
destination 38	locations 48
Searching for POIs around the city 38	Exporting favourite locations 48
Selecting destination from "Favourites" 39	 Importing favourite locations 48
Searching for POIs by using the data on the	Deleting the destination history from the
SD memory card 39	list 49
Selecting a location you searched for	1151 45
recently 40	Using traffic information
Searching for a location by coordinates 40	Checking all traffic information 50
Searching for a location by coordinates 40	Checking traffic information on the
After the location is decided	route 51
Setting a route to your destination 41	How to read traffic information on the
 Displaying multiple routes 41 	map 51
•	Setting an alternative route to avoid traffic
18 Checking and modifying the current	jams 51
route	 Checking for traffic jams
Displaying the route overview 42	automatically 52
Modifying the route calculation	 Checking traffic information
conditions 42	manually 52
Items that users can operate 42	Selecting traffic information to display 53
Checking the current itinerary 43	Selecting preferred RDS-TMC service
Editing waypoints 44	provider manually 53
Adding a waypoint 44	
 Deleting a waypoint 44 	Registering and connecting a Bluetooth
 Sorting waypoints 45 	device

Cancelling the route guidance 45

Registering and editing locations

Storing favourite locations 46

Preparing communication devices 54

Registering your Bluetooth devices 54

Searching for nearby Bluetooth

devices 54

 Pairing from your Bluetooth devices 55 Searching for a specified Bluetooth device 56 Deleting a registered device 57 Connecting a registered Bluetooth device manually 57 	Operating list screens (e.g. iPod list screen) 69 - Switching between the AV operation screen and the list screen 69 - Selecting an item 70 - Returning to the previous display 70
Setting for priority connecting 58	14 Using the radio (FM) Starting procedure 71
Displaying the phone menu 59 Making a phone call 59 Direct dialling 59 Making a call home easily 60 Calling a number in the phone book 60 Dialling from the history 61 Dialling a favourite location 61 Dialling a facility's phone number 61 Dialling from the map 62 Receiving a phone call 62 Answering an incoming call 62 Transferring the phone book 63 Deleting registered contacts 64 Changing the phone settings 64 Editing the device name 64 Editing the password 64 Stopping Bluetooth wave transmission 65	Reading the screen 71 Using the touch panel keys 72 Storing and recalling broadcast frequencies 72 Operating by hardware buttons 73 Using advanced functions 73 Storing the strongest broadcast frequencies 73 Tuning in strong signals 73 (5) Using the radio (AM) Starting procedure 75 Reading the screen 75 Using the touch panel keys 76 Storing and recalling broadcast frequencies 76 Operating by hardware buttons 77 Using advanced functions 77 Storing the strongest broadcast frequencies 76
Echo cancelling and noise	Tuning in strong signals 77
reduction 65 - Answering a call automatically 65 - Setting the automatic rejection function 66 - Clearing memory 66 - Updating the Bluetooth wireless technology software 66	Playing audio CDs Starting procedure 79 Reading the screen 79 Using the touch panel keys 80 Operating by hardware buttons 81 Using advanced functions 81
Notes for hands-free phoning 67	T Playing music files on ROM Starting procedure 82
Basic operations of the AV source	Starting procedure 82 Reading the screen 82

Using the touch panel keys 84

Operating by hardware buttons 85

Displaying the AV operation screen 69

4 Downloaded from Caradio-Manual.com Manuals

- Selecting a source **69**

70

Using advanced functions

18 Playing a DVD-Video

Starting procedure 87 Reading the screen 87

Using the touch panel keys 88

- Resuming playback (Bookmark)
- Searching for a specific scene and starting playback from a specified time 90
- Direct number search 90
- Operating the DVD menu 90
- Using DVD menu by touch panel kevs 90
- Frame-by-frame playback 91
- Slow motion playback 91

Operating by hardware buttons 91 Using advanced functions 91

Playing a DivX video

Starting procedure 93 Reading the screen 93

Using the touch panel keys 94 Frame-by-frame playback 95

- Slow motion playback 95
- Starting playback from a specified time 96

Operating by hardware buttons 96 Using advanced functions 96

2 DVD-Video or DivX setup

Displaying DVD/DivX® Setup menu 97 Setting the top-priority languages Setting the angle icon display 97 Setting the aspect ratio 98 Setting the parental lock 98

- Setting the code number and level 98 Setting the auto play 99 Setting the subtitle file for DivX Language code chart for DVDs 100

21 Playing music files (from USB or SD)

Starting procedure 101

Reading the screen 101 Using the touch panel keys (Music) 103 Operating by hardware buttons 104 Using advanced functions 104

22 Playing video files (from USB or SD)

Starting procedure 105 Reading the screen 105

Using the touch panel keys (Video) 106

 Searching for a specific scene and starting playback from a specified time 107

Operating by hardware buttons 107 Using advanced functions

Using an iPod (iPod)

Starting procedure 108 Reading the screen 108 Using the touch panel keys 110 Operating by hardware buttons 112 Starting the video playback 112 Narrowing down a song or video with the list 112

Operating the functions from your iPod 113 Playing MusicSphere 114

- Starting procedure 114
- Reading the screen 114
- Using the touch panel keys 114

Using advanced functions 114

24) Using the Bluetooth audio player

Starting procedure 116 Reading the screen 116 Using the touch panel keys 118 Operating by hardware buttons 118 Using advanced functions 119

25 Using AV input

Reading the screen 120 Using AV1 120 Using AV2 120 Using the touch panel keys 120

26 Customising preferences

settings 121

status 122

Displaying the screen for navigation

Checking the connections of leads 121

Checking sensor learning status and driving

Clearing status 122
Using the fuel consumption function 123
 Inputting the fuel consumption
information for calculating the fuel
cost 123
 Calculating the fuel consumption 123
 Exporting the data of fuel cost
information 124
Recording your travel history 124
Using the demonstration guidance 125
Registering your home 125
Correcting the current location 126
Changing the eco-function setting 126
Displaying black spot notification icons 127
Displaying the screen for map settings 127
Setting the auto-zoom display 128
Setting the speed limit display 128
Displaying the traffic notification icon Displaying the Bluetooth connection
icon 129
Setting the current street name display 129
Setting the display of icons of favourite
locations 129
Displaying the 3D landmarks 129
Displaying manoeuvres 130
Displaying the fuel consumption
information 130
Displaying POI on the map 130
 Displaying preinstalled POIs on the
map 130
 Displaying the customised POIs 131
Changing the view mode 132
Setting the map colour change between day
and night 132

Changing the setting of navigation interruption screen 133
Selecting the "Quick Access" menu Displaying the screen for system settings 134

- Customising the regional settings 134
- Setting the Volume for Guidance and Phone 136
- Changing the preinstalled splash screen 136
- Changing to the splash screen stored in the SD memory card 137
- Setting for rear view camera 137
- Adjusting the response positions of the touch panel (touch panel calibration)
 138
- Setting the illumination colour 138
- Checking the version information
 Selecting the video for rear display
 Adjusting the picture
 140

Displaying the screen for AV system settings 141

- Setting video input 1 (AV1) 141
- Setting video input 2 (AV2) 142
- Changing the wide screen mode 142
- Setting the rear output 142
- Switching the muting/attenuation timing 143
- Switching the muting/attenuation level 143
- Displaying your DivX VOD registration code 143
- Displaying your DivX VOD deregistration code 144

Displaying the screen for AV sound settings **144**

- Using balance adjustment 145
- Using the equaliser 145
- Adjusting the equaliser curve automatically (Auto EQ) 147
- Using sonic centre control 149

Changing the road colour 132

Setting the safe mode 151 — Compatibility 171 Turning off the screen 151 — Media compatibility chart 174 Bluetooth 178	171
 Using the high pass filter 150 Adjusting source levels 150 Enhancing bass (Bass Booster) 150 Replicating the settings 151 Setting the safe mode 151 Turning off the screen 151 AVCHD recorded discs 171 Playing DualDisc 171 Dolby Digital 171 Detailed information for playable media 1 Compatibility 171 Media compatibility chart 174 Bluetooth 178 	171
 Adjusting source levels 150 Enhancing bass (Bass Booster) 150 Replicating the settings 151 Setting the safe mode 151 Turning off the screen 151 Playing DualDisc 171 Dolby Digital 171 Detailed information for playable media 1 Compatibility 171 Media compatibility chart 174 Bluetooth 178 	171
 Enhancing bass (Bass Booster) Replicating the settings Setting the safe mode Turning off the screen Other functions Dolby Digital Detailed information for playable media Compatibility Media compatibility chart Bluetooth Bluetooth 	I 71
 Enhancing bass (Bass Booster) Replicating the settings Setting the safe mode Turning off the screen Other functions Dolby Digital Detailed information for playable media Compatibility Media compatibility chart Bluetooth Bluetooth 	7 1
Replicating the settings 151 Setting the safe mode 151 Turning off the screen 151 Other functions Detailed information for playable media 1 - Compatibility 171 - Media compatibility chart 174 Bluetooth 178	171
Setting the safe mode Turning off the screen 151 — Compatibility 171 — Media compatibility chart 174 Bluetooth 178	
Turning off the screen 151 – Media compatibility chart 174 Bluetooth 178	
Other functions Bluetooth 178	
Other functions	
2D 800 2DEC 1000 170	
Setting the anti-theft function 152 WMA/WMV 179	
- Setting the password 152 DivX 179	
- Entering the password 152 AAC 179	
 Deleting the password 152 Detailed information regarding connected 	
- Forgotten password 152 iPod devices 179	
Returning the navigation system to the iPod and iPhone 180	
default or factory settings 153 – iTunes 180	
 Restoring the default setting 153 Using the LCD screen correctly 180 	
 Returning the navigation system to the Handling the LCD screen 	
initial state 153 — Liquid crystal display (LCD)	
- Setting items to be deleted 154 screen 180	
AppendixMaintaining the LCD screen	
Troubleshooting 156 – LED (light-emitting diode)	
Messages and how to react to them 161 backlight 181	
Messages for audio functions 163 Display information 182	
Positioning technology 165 — Destination Menu 182	
- Positioning by GPS 165 - Phone Menu 182	
 Positioning by dead reckoning Positioning by dead reckoning Settings Menu 	
 How do GPS and dead reckoning work Navi Settings menu 	
together? 165 – System Settings menu 184	
Handling large errors 166 – Map Settings menu 184	
When positioning by GPS is Bluetooth Settings menu 185	
impossible 166 — AV System Settings menu 185	
- Conditions likely to cause noticeable - AV Sound Settings menu 186	
positioning errors 167 Glossary 187	
Route setting information 169 Specifications 190	
Route search specifications 169	

Handling and care of discs 169 - Built-in drive and care 170 - Ambient conditions for playing a

disc **170**

Introduction

Manual overview

Before using this product, be sure to read Important Information for the User (a separate manual) which contains warnings, cautions, and other important information that you should note.

The screen examples shown in this manual are the ones for AVIC-F30BT. If you use a different model, the screens that appear may differ from the examples in the manual.

How to use this manual

Finding the operation procedure for what you want to do

When you have decided what you want to do, you can find the page you need from the Contents.

Finding the operation procedure from a menu name

If you want to check the meaning of an item displayed on the screen, you will find the necessary page from the Display information at the end of the manual.

Glossary

Use the glossary to find the meanings of terms.

Conventions used in this manual

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

 Buttons on your navigation system are described in **ALL CAPITAL**, **BOLD** lettering: e.g.)

HOME button, **MODE** button.

 Menu items, screen titles, and functional. components are described in **bold** with double quotation marks "":

e.g.)

"Destination Menu" screen or "AV Source" screen

• Touch panel keys that are available on the screen are described in **bold** in brackets []:

[Destination], [Settings].

· Extra information, alternatives and other notes are presented in the following format:

e.a.)

- ☐ If the home location has not been stored vet, set the location first.
- Functions of other keys on the same screen are indicated with at the beginning of the description:

e.a.)

- If you touch [OK], the entry is deleted.
- References are indicated like this: e.g.)
 - ⇒ For details of the operations, refer to Screen switching overview on page 22.

Terms used in this manual

"Front display" and "Rear display"

In this manual, the screen that is attached to the body of this navigation unit will be referred to as the "Front display". Any additional screen that is commercially available and can be connected to this navigation unit will be referred to as the "Rear display".

"Video image"

"Video image" in this manual indicates moving images of DVD-Video, DivX®, iPod, and any equipment that is connected to this system with an RCA cable, such as general-purpose AV equipment.

Introduction

"External storage device (USB, SD)"

The SD memory card, SDHC memory card, microSD card, microSDHC card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory only, it is referred to as the "USB storage device".

"SD memory card"

The SD memory card, SDHC memory card, microSD card and microSDHC card are collectively referred to as the "SD memory card". ■

Notice regarding video viewing

Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights as protected by the Copyright Law.

Notice regarding DVD-Video viewing

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

Notice regarding MP3 file usage

Supply of this navigation system conveys only a licence for private, non-commercial use and does not convey a licence nor imply any right to use this product in any commercial (i.e. revenue-generating), real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such

as pay-audio or audio-on-demand applications. An independent licence for such use is required. For details, please visit http://www.mp3licensing.com.

iPod compatibility

This product supports only the following iPod models and iPod software versions. Others may not work correctly.

- iPod touch fourth generation: Ver. 4.1
- · iPod touch third generation: Ver. 4.1
- iPod touch second generation: Ver. 4.1
- iPod touch first generation: Ver. 3.1.3
- iPod classic 120GB: Ver. 2.0.1
- iPod classic 160GB (2009); Ver. 2.0.4
- iPod classic 80GB: Ver. 1.1.2
- iPod classic 160GB (2007): Ver. 1.1.2
- iPod with video: Ver. 1.3.
- iPod nano sixth generation: Ver. 1.0
- iPod nano fifth generation: Ver. 1.0.2
- iPod nano fourth generation: Ver. 1.0.4
- iPod nano third generation: Ver. 1.1.3
- iPod nano second generation: Ver. 1.1.3
- iPod nano first generation: Ver. 1.3.1
- iPhone 4: Ver. 4.1
- iPhone 3GS: Ver. 4.1
- iPhone 3G: Ver. 4.1
- iPhone: Ver. 3.1.3
- In this manual, iPod and iPhone will be referred to as iPod.
- When you use this navigation system with a Pioneer USB interface cable for iPod (CD-IU51V) (sold separately), you can control an iPod compatible with this navigation system.
- Operation methods may vary depending on the iPod models and the software version of iPod.
- Depending on the software version of the iPod, it may not be compatible with this equipment.
 - For details about iPod compatibility with this navigation system, refer to the information on our website. •

Introduction

Map coverage

For details about the map coverage of this navigation system, refer to the information on our website.

Protecting the LCD panel and screen

- Do not allow direct sunlight to fall on the LCD screen when this product is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.
- When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of spots, coloured stripes, etc.
- □ To protect the LCD screen from damage, be sure to touch the touch panel keys with your finger only and gently touch the screen.

Notes on internal memory Before removing the vehicle battery

If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

- ☐ Some data remains. Be sure to read Setting items to be deleted first.
 - **⊃** For details, refer to *Setting items to be deleted* on page 154.

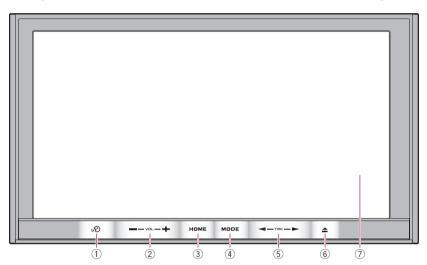
Data subject to erasure

The information is erased by disconnecting the yellow lead from the battery (or removing the battery itself).

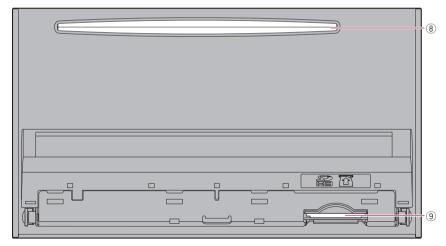
- ☐ Some data remains. Be sure to read Setting items to be deleted first.
 - ⇒ For details, refer to Setting items to be deleted on page 154. ■

Checking part names and functions

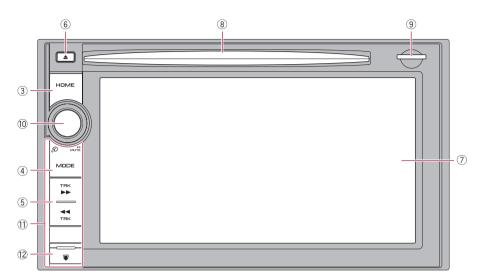
This chapter gives information about the names of the parts and the main features using the buttons.



AVIC-F30BT (with the LCD panel closed)



AVIC-F30BT (with the LCD panel open)



AVIC-F930BT

1 (9) button

- Press the
 _N button to hear the route guidance.
- Press and hold the
 Dutton to switch
 the AV source to mute.
 To cancel the muting, press and hold it
 again.

2 VOL (+/-) button

Press to adjust the AV (Audio and Video) source volume.

3 HOME button

- Press the HOME button to display the "Top Menu" screen.
- Press to switch between the Classic Menu and the Shortcut Menu while the "Top Menu" is displayed.
 - **⊃** For details, refer to What you can do on each menu on page 23.
- Press and hold to turn off the screen display.

(4) MODE button

• Press to switch between the map screen and the AV operation screen.

- Press to display the map screen while the navigation function screen is displayed.
- Press and hold to display the "Picture Adjustment" screen.
 - **⊃** For details, refer to *Adjusting the picture* on page 140.

5 TRK button

Press to perform manual seek tuning, fast forward, reverse and track search controls.

⑥ ▲ button

7 LCD screen

8 Disc-loading slot

Insert a disc to play.

→ For details, refer to Inserting and ejecting a disc on page 14.

9 SD card slot

➡ For details, refer to Inserting and ejecting an SD memory card on page 15.

Multi-control (Volume knob/√S)/MUTE)

 Rotate to adjust the AV (Audio and Video) source volume.

- Press the centre of Multi-control to hear the route guidance.
- Press and hold the centre of Multi-control to mute the AV (Audio and Video) source. To cancel the muting, press and hold it again.

11 Front panel

① Detach button

Press to remove the front panel from the navigation system.

⊃ For details, refer to *Removing the front* panel on this page.

Protecting your product from theft

☐ This function is available for AVIC-F930BT only.

The front panel can be detached from the navigation system to discourage theft, as described below.



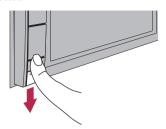
CAUTION

- Do not expose the front panel to excessive shock or disassemble it.
- Never grip the buttons tightly or use force when removing or attaching.
- Keep the front panel out of reach of small children to prevent them from putting it in their mouths.
- After removing the front panel, keep it in a safe place so it is not scratched or damaged.
- Keep the front panel out of direct sunlight and high temperatures.
- When removing or attaching the front panel, do so after turning the ignition switch off (ACC OFF).

Removing the front panel

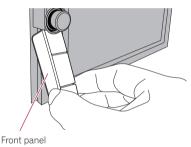
☐ The navigation system cannot be operated while the front panel is removed from the navigation system.

1 Press and hold the Detach button, and slide it down.



When you release your finger, the bottom of the front panel separates slightly from the navigation system.

2 Gently grip the bottom of the front panel and slowly pull it outward.



Attaching the front panel

1 Slide the front panel all the way into the navigation system.

Make sure the front panel is securely connected to the mounting hooks of the navigation system.

2 Push the lower part of the front panel until you hear a click.

If you fail to successfully attach the front panel to the navigation system, try again but be careful not to force it as the panel could be damaged.

Adjusting the LCD panel angle

☐ This function is available for AVIC-E30BT only.



When opening, closing and adjusting the angle of the LCD panel, be careful not to get your fingers caught.



CAUTION

Do not open or close the LCD panel by force. This may cause malfunction.

Press the **≜** button.

The "Monitor Setup" screen appears.

Touch a or to adjust the angle.



3 Touch ≤ .

☐ The adjusted angle of the LCD panel will be memorised and the LCD panel will automatically return to that angle the next time the LCD panel is opened or closed.

Inserting and ejecting a disc **Inserting a disc (for AVIC-F30BT)**



- · When opening, closing and adjusting the angle of the LCD panel, be careful not to get your fingers caught.
- · Do not use with the LCD panel left open. If LCD panel is left open, it may result in injury in the event of an accident.

CAUTION

- Do not open or close the LCD panel by force. This may cause malfunction.
- Do not operate this navigation system until the LCD panel completely opens or closes. If this navigation system is operated while the LCD panel is opening or closing, the LCD panel may stop at that angle for safety.
- Do not place a glass or a can on the open LCD panel. Doing so may break this navigation system.
- Do not insert anything other than a disc into the disc-loading slot.

Press the **≜** button.

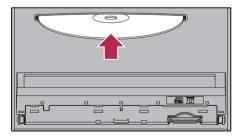
The "Monitor Setup" screen appears.

Touch [Open].



The LCD panel opens, and the disc-loading slot appears.

Insert a disc into the disc-loading slot.



The disc is loaded, and the LCD panel closes.

Ejecting a disc (for AVIC-F30BT)

1 Press the **≜** button.

The "Monitor Setup" screen appears.

2 Touch [Disc Eject].



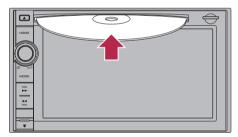
The LCD panel opens, and the disc is ejected.

3 Remove the disc, and press the ≜ button.

The LCD panel closes.

Inserting a disc (for AVIC-F930BT)

Insert a disc into the disc-loading slot.



Do not insert anything other than a disc into the disc-loading slot.

Ejecting a disc (for AVIC-F930BT)

Press the ≜ button.

The touch panel keys for ejecting the media appear.

2 Touch [Disc Eject].



The disc is ejected.

Inserting and ejecting an SD memory card

A CAUTION

- Ejecting an SD memory card during data transfer can damage the SD memory card. Be sure to eject the SD memory card by the procedure described in this manual.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.
- Do not insert anything other than SD memory cards.
- ☐ This system is not compatible with Multi Media Card (MMC).
- ☐ Compatibility with all SD memory cards is not guaranteed.
- ☐ This unit may not achieve optimum performance with some SD memory cards.

Inserting an SD memory card (for AVIC-F30BT)



- Do not press the ≜ button when an SD memory card is not fully inserted. Doing so may damage the card.
- Do not press the ≜ button before an SD memory card has been completely removed. Doing so may damage the card.

1 Press the **≜** button.

The "Monitor Setup" screen appears.

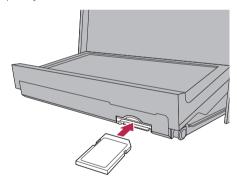
2 Touch [SD Insert].



The LCD panel opens, and the SD card slot appears.

3 Insert an SD memory card into the SD card slot.

Insert it with the label surface facing to the upside and press the card until it clicks and completely locks.



4 Press the **≜** button.

The LCD panel closes.

If data related to map data, such as customised POI data, is stored on the SD memory card, the navigation system restarts.

Ejecting an SD memory card (for AVIC-F30BT)

1 Press the **≜** button.

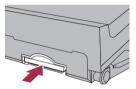
The "Monitor Setup" screen appears.

2 Touch [Eject SD].

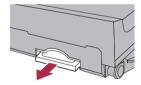


The LCD panel opens.

3 Press the middle of the SD memory card gently until it clicks.



4 Pull the SD memory card out straight.



5 Press the **≜** button.

The LCD panel closes.

■ When you eject the SD memory card by touching [Eject SD], the model information that you are using will be automatically stored into the SD memory card. The utility programme AVIC FEEDS will use this information to recognise the model that you use.

When the data related to map data is stored

☐ This description is for AVIC-F30BT.

If data related to map data, such as customised POI data, is stored on the SD memory card, operating procedures are slightly different.

1 Press the **≜** button and then touch [Eject SD].

2 Touch [Yes].



The navigation system restarts, and then the LCD panel opens.

- 3 Eject the SD memory card.
- 4 Press the **≜** button.

The LCD panel closes.

Inserting an SD memory card (for AVIC-F930BT)

Insert an SD memory card into the SD card slot.

Insert the SD memory card with the terminal contacts facing down, and press the card until it clicks and locks completely.



If data related to map data, such as customised POI data, is stored on the SD memory card, the navigation system restarts.

Ejecting an SD memory card (for AVIC-F930BT)

1 Press the **≜** button.

The touch panel keys for ejecting the media appear.

2 Touch [Eject SD].



A message prompting you to remove the SD memory card appears.



3 Press the middle of the SD memory card gently until it clicks.



4 Pull the SD memory card out straight.



When the data related to map data is stored

☐ This description is for AVIC-F930BT.

If data related to map data, such as customised POI data, is stored on the SD memory card, operating procedures are slightly different

1 Press the A button and then touch [Eject SD].

Touch [Yes].



The navigation system restarts, and a message prompting you to remove the SD memory card appears.



Eject the SD memory card while the message is displayed.

Eject the SD memory card before touching OK].

4 Touch [OK].

The navigation system restarts.

Plugging and unplugging a **USB** storage device



CAUTION

- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not

- possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.
- Compatibility with all USB storage devices is not quaranteed. This navigation system may not achieve optimum performance with some USB sto-

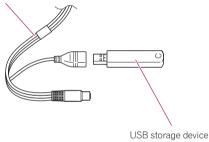
rage devices.

Connection via a USB hub is not possible.

Plugging in a USB storage device

 Plug a USB storage device into the USB and mini-jack connector.

USB and mini-jack connector



Unplugging a USB storage device

 Pull out the USB storage device after checking that no data is being accessed.

Connecting and disconnecting an iPod



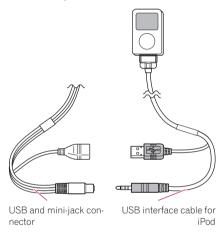
CAUTION

- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

Connecting your iPod

Using the USB interface cable for iPod enables you to connect your iPod to the navigation system.

- ☐ A USB interface cable for iPod (CD-IU51V) (sold separately) is required for connection.
- For details about iPod compatibility with this navigation system, refer to the information on our website.
- ☐ Connection via a USB hub is not possible.
- 1 Check that no USB storage device is connected.
- Connect your iPod.



Disconnecting your iPod

 Pull out the USB interface cable for iPod after checking that no data is being accessed.

Startup and termination

- 1 Start the engine to boot up the system. After a short pause, the splash screen comes on for a few seconds.
 - To protect the LCD screen from damage, be sure to touch the touch panel keys with your finger only and gently touch the screen.
 - 2 Turn off the vehicle engine to terminate the system.

The navigation system is also turned off.

On first-time startup

When you use the navigation system for the first time, select the language that you want to use.

- 1 Start the engine to boot up the system. After a short pause, the splash screen comes on for a few seconds
- 2 Touch the language that you want to use on the screen.



3 Touch the language that you want to use for the voice guidance.



The navigation system will now restart.

4 Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.



The map screen appears.



Regular startup

• Start the engine to boot up the system.

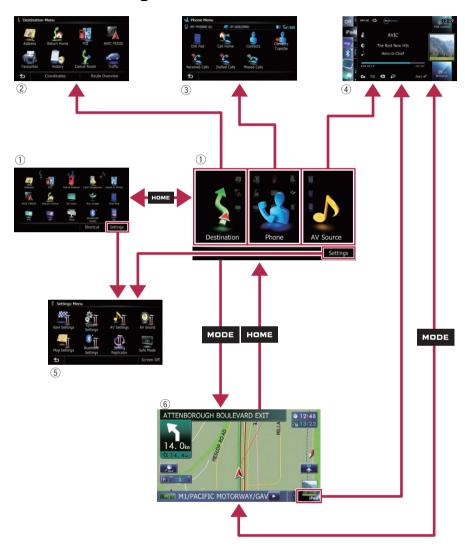
After a short pause, the splash screen comes on for a few seconds.

- ☐ The screen shown will differ depending on the previous conditions.
- When there is no route, the disclaimer appears after the navigation system reboots. Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.
- ☐ If the anti-theft function is activated, you must enter your password.
 Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.

Basic operation

How to use the navigation menu screens

Screen switching overview



How to use the navigation menu screens

What you can do on each menu

1 Top Menu

Press the **HOME** button to display the "**Top Menu**" screen.

This is the starting menu to access the desired screens and operate the various functions.

There are two types of the "**Top Menu**" screen.



Classic Menu



Shortcut Menu

☐ In this manual, Classic Menu will be referred to as "**Top Menu**".

2 Destination Menu

You can search for your destination on this menu. You can also check or cancel your set route from this menu.

3 Phone Menu

You can access the screen that is related to hands-free phoning.

(4) AV operation screen

This is the screen that normally appears when you play the AV source.

5 Settings Menu

You can access the screen to customise settings.

6 Map screen

You can use this screen to check the current vehicle position information and route to the destination.

Shortcut Menu

Registering your favourite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the Shortcut Menu screen.

Selecting the shortcut

- ☐ Up to 15 menu items can be registered in shortcuts.
- 1 Press the HOME button repeatedly to display the Shortcut Menu screen.
 - When you use the navigation system for the first time or no items are set on shortcut, a message will appear. Touch [Yes] to proceed to next step.

2 Touch [Shortcut].



The Shortcut selection screen appears.

3 Touch the tab on the right edge or scroll the bar to display the icon that you want to set to shortcut.



Scroll bar

4 Touch and hold the icon that you want to add to shortcut.

How to use the navigation menu screens

5 Move the icon to the left side of the screen, and then release it.

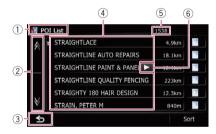
The selected item is added to shortcut.



Removing a shortcut

- 1 Touch and hold the icon of the shortcut you want to remove.
- 2 Move the icon to the right side of the screen, and then release it.

Operating list screens (e.g. POI list)



- 1 Screen title
- (2) A V

Touching or on the scroll bar scrolls through the list and allows you to view the remaining items.

3 5

The previous screen returns.

(4) Listed items

Touching an item on the list allows you to narrow down the options and proceed to the next operation.

- 5 Number of possible choices
 - ☐ If there are 10 000 or more possible choices, "****" is displayed.
- ⑥ ▶ ■

If all of the characters cannot be displayed within the displayed area, touching the key to the right of the item allows you to see remaining characters.

Operating the on-screen keyboard



1 Screen title

The screen title appears.

② Text box

Displays the characters that are entered. If there is no text in the box, an informative guide with text appears.

3 Keyboard

Touch the keys to enter the characters.

4)

The previous screen returns.

(5) Keys

Switches the on-screen keyboard layout.

6 Sym., Others, 0-9

You can enter other characters of alphabet. You can also enter text with marks such as [&] or [+] or numbers.

Touch to toggle the selection.

- Even if you use any of "A", "Ä", "Å", "Æ", the displayed result is the same.
- (7) **OK**

Confirms the entry and allows you to proceed to the next step.

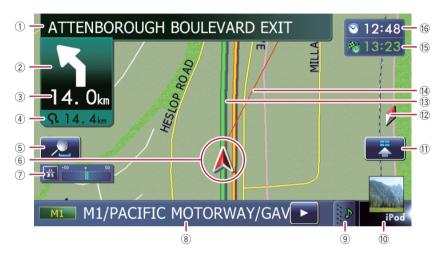
8 <

Deletes the input text one letter at a time, beginning at the end of the text. Continuing to touch the key deletes all of the text.

Most of the information provided by your navigation system can be seen on the map. You need to become familiar with how information appears on the map.

How to read the map screen

This example shows an example of a 2D map screen.



- ☐ Information with an asterisk (*) appears only when the route is set.
- Depending on the conditions and settings, some items may not be displayed.
- ① Name of the street to be used (or next guidance point)*
- ② Next direction of travel*

As you get closer to the guidance point, the colour of the item changes to green.

- ☐ Touching this item enables you to hear the next guidance again.
- You can select between display and non-display.
 - **⇒** For details, refer to *Displaying manoeuvres* on page 130.
- 3 Distance to the guidance point*

Shows the distance to the next guidance point.

- □ Touching this item enables you to hear the next guidance again.
- (4) Second Manoeuvre Arrow*

Shows the turning direction after next guidance point and the distance to there.

⇒ For details, refer to *Displaying manoeuvres* on page 130.

⑤ Map control

Touching displays touch panel keys for changing the map scale and the map orientation.

6 Current position

Indicates the current location of your vehicle. The apex of the triangular mark indicates your orientation and the display moves automatically as you drive.

☐ The apex of the triangular mark is the proper current position of the vehicle.

7 Eco-Meter

Displays a graph comparing the past average fuel mileage and the average fuel mileage since the navigation system was last started.

→ For details, refer to Displaying the fuel consumption information on page 130.

8 Street name (or city name) that your vehicle is travelling along

- ⇒ For details, refer to Setting the current street name display on page 129.
- Extension tab for the AV information bar Touching this tab opens the AV information bar and enables you to briefly view the current status on the AV source. Touching it again retracts the bar.

(10) Shortcut to the AV operation screen

The AV source currently selected is shown. Touching the indicator displays the AV operation screen of the current source directly.

☐ If you connect your iPod to this navigation system, the artwork for the album that is playing appears.

(1) Ouick Access icon

Displays the "Ouick Access" menu.

⇒ For details, refer to Using shortcut menus on the map on page 29.

12 Map orientation indicator

- When "North up" is selected, is dis-
- When "Heading up" is selected,) is displayed.
 - The red arrow indicates north.
- ⇒ For details, refer to Switching the map orientation on page 28.

(13) Current route*

The route currently set is highlighted in colour on the map. If a waypoint is set on the route, the route after the next waypoint is highlighted in another colour.

(14) Direction line*

The direction towards your destination (next waypoint, or the position of a cursor) is indicated with a straight line.

15 Multi-Info window

Each touch of Multi-Info window changes the display information as follows.

- · Distance to the destination (or distance to waypoint)*
- Estimated time of arrival at your destination or waypoint*

The estimated time of arrival is an ideal value calculated based on the value set for "Average Speed" and the actual

- driving speed. The estimated time of arrival is only a reference value, and does not quarantee arrival at that time.
- . Travel time to your destination or waypoint*

16 Current time

Meaning of guidance flags



Destination

The checkered flag indicates your destination.



Waypoint

The blue flags indicate your way-



Guidance point

The next guidance point (next turning point, etc.) is shown by a yellow flag.

Enlarged map of the intersection

When "Close Up View" in the "Map Settings" screen is "On", an enlarged map of the intersection appears.



⇒ For details, refer to *Setting the auto-zoom* display on page 128.

Display during motorway driving

In certain locations of the motorway, lane information is available. The map indicates the recommended lane to be in to easily manoeuvre the next guidance.



While driving on the motorway, motorway exit numbers and motorway signs may be displayed in the vicinity of interchanges and exits.



- 1 Lane information
- ② Motorway exit information Displays the motorway exit.
- ③ Motorway signs

These show the road number and give directional information.

☐ If the data for these items is not contained in the built-in memory, the information is not available even if there are the signs on the actual road. ☐

Types of the road stored in the map database

Roads included in the route guidance

Turn by Turn Routable Roads contain full attribute data and can be used for full Route Gui-

dance. Pioneer Navigation will display full route guidance, including turn-by-turn voice directions and arrow icons.

Roads without turn-by-turn instructions

Routable roads (the route displayed and highlighted in violet) have only basic data and can only be used to plot a navigable route. Pioneer Navigation will only display a navigable route on the map (only the arrival guidance for the destination or a waypoint is available). Please review and obey all local traffic rules along the highlighted route for your safety.

No turn-by-turn directions will be displayed on these roads.

Non routable roads (pink colour road)

Map display is possible, but it cannot be used for route calculation. Please review and obey all local traffic rules along this route. (For your safety.)

Operating the map screen Changing the scale of the map

You can change the map scale between 25 metres and 500 kilometres (25 yards and 250 miles).

- 1 Display the map screen.
- 2 Touch on the map screen.
- 💶 and 🔃 with the map scale appear.



3 Touch or to change the map scale.

- If you do not operate the function for a few seconds, the touch panel keys for map display control disappear.
- If you touch the direct scale key, the map is changed to the selected scale directly.

Switching the map orientation

You can switch how the map shows your vehicle's direction between "Heading up" and "North up".

- Heading up:
 - The map display always shows the vehicle's direction as proceeding toward the top of the screen
- North up: The map display always has north at the top of the screen.
- The map orientation is fixed at "North up" when the map scale is 50 kilometres (25 miles) or more.
- ☐ The map orientation is fixed at "Heading up" when the 3D map screen is displayed.
- 1 Display the map screen.
- 2 Touch on the map screen.
- or nappears.



3 Touch or to switch the vehicle's direction.

Each time you touch the key changes the setting.

If you do not operate the function for a few seconds, the touch panel keys for map display control disappear.

Scrolling the map to the position you want to see

- 1 Display the map screen.
- 2 Touch and drag the map in the desired direction to scroll.



- ① Cursor
- ② Distance from the current position
 Positioning the cursor to the desired location
 results displaying in a brief informational overview about the location at the bottom of
 screen, with the street name and other information for this location. (The information
 shown varies depending on the position.)
 - ☐ The scrolling increment depends on your dragging length.
- If you touch , the map returns to the current position.
 - Pressing MODE button returns the map to the current position.

Viewing information about a specified location

An icon appears at registered places (home location, specific places, **Favourites** entries) and places where there is a POI icon or traffic information icon. Place the scroll cursor over the icon to view detailed information.

1 Scroll the map and move the scroll cursor to the icon you want to view.

2 Touch III.



The "Information List" screen appears.

3 Touch the item that you want to check the detailed information.

Information for a specified location appears.



The information shown varies according to the location. (There may be no information for that location.)

- ➡ For details, refer to Setting the display of icons of favourite locations on page 129.
- → For details, refer to *Displaying POI on the map* on page 130.
- ⇒ For details, refer to How to read traffic information on the map on page 51.
- Touching [Call] enables you to call the position if a telephone number is available.
 (Pairing with mobile phone featuring Bluetooth wireless technology is required.)
 - **⊃** For details, refer to *Dialling from the map* on page 62.

Using shortcut menus on the map

"Quick Access" menu allows you to perform various tasks, such as route calculation for the location indicated by the cursor or registering a location in "Favourites", faster than using the navigation menu.

You can customise "Quick Access" displayed on screen. The "Quick Access" described here are prepared as the default setting.

- ⇒ For details, refer to Selecting the "Quick Access" menu on page 133.
- ☐ Items marked with an asterisk (*) cannot be removed from the "Quick Access" menu.
- When the map is displayed, touch



Ouick Access menu

Route Options*

Displayed when the map is not scrolled. This item can be selected only during route guidance.

You can modify the conditions for route calculation and recalculate the current route.

⊃ For details, refer to *Modifying the route calculation conditions* on page 42.

Destination*

Displayed when the map is scrolled. Set the route to the place specified with the cursor.

Registration

Register information on the location indicated by the cursor to "**Favourites**".

⇒ For details, refer to *Registering a location by scroll mode* on page 46.

: Vicinity Search

Find POIs (Points Of Interest) in the vicinity of the cursor.

⊃ For details, refer to *Searching for a nearby POI* on page 38.

Overlay POI

Displays icons for surrounding facilities (POI) on the map.

⇒ For details, refer to *Displaying POI on the map* on page 130.

🕎 : Volume

Displays the "Volume Settings" screen.

⊃ For details, refer to *Setting the Volume for Guidance and Phone* on page 136.

Contacts

Displays the "Contacts List" screen.

⊃ For details, refer to *Calling a number in the phone book* on page 60.

Close

Hides the "Quick Access" menu.

Switching the view mode

Various types of screen displays can be selected for navigation guidance.

1 Display the "Map Settings" screen.

For details, refer to Displaying the screen for map settings on page 127.

2 Touch [View Mode].

The "View Mode" screen appears.

3 Touch the type that you want to set.

You can select the following types:

• **2D View** (default): Displays a normal map (2D map).



3D View:

Displays a map with an aerial view (3D map).



Street View:

Information on the next four guidance points closest to the current location appear in order from top to bottom on the left side of the screen. The following information is displayed.



- Name of the next route to be taken by the vehicle
- Arrow indicating the direction of the vehicle
- Distance to the guidance points
- ☐ This mode is available when the route is set.

Rear View:

Displays the rear view image on the left side of the screen and the map on the right side of the screen.

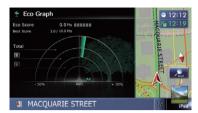


- ☐ This mode is available when the rear view camera setting is set to "On".
- → For details, refer to Setting for rear view camera on page 137.

Eco Graph:

Displays a graph for eco-driving on the left side of the screen and the map on the right side of the screen.

How to use the map



⇒ For details, refer to Checking the ecofriendly driving status on the next page.

Eco-friendly driving functions

This navigation system is equipped with ecofriendly driving functions that can be used to estimate whether you are driving in an environmentally friendly way.

This chapter describes these functions.

- The fuel mileage calculated is based on a theoretical value determined from vehicle speed and position information from the navigation system. The fuel mileage displayed is only a reference value, and does not guarantee the mileage displayed can be obtained.
- The eco-friendly driving functions are an estimate of the real time fuel consumption to average fuel consumption ratio and is not an actual value.
- The eco-friendly driving functions and calculations take into consideration the location of the GPS position and speed of the vehicle in determining a value.

Checking the eco-friendly driving status

This function estimates approximate fuel mileage based on your driving, compares that with your average fuel mileage in the past, and displays the results in a graph.

The graph appears when the map display is set to "**Eco Graph**".

1 Display the "Map Settings" screen.

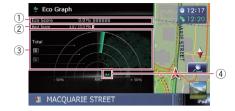
For details, refer to Displaying the screen for map settings on page 127.

2 Touch [View Mode].

The "View Mode" screen appears.

3 Touch [Eco Graph].

The "Eco Graph" screen appears.



① Eco Score

The result of the comparison of your past average fuel mileage and current average fuel mileage appears as a value from **0.0 Pts** (points) to **10.0 Pts**. The higher the value, the better the fuel mileage when compared to past route guidance. The green gauge indicates the current score, and the grey gauge indicates the best score to date.

The "**Eco Score**" is updated every 5 minutes.

☐ This is not displayed when "Eco Score" is set to "Off" or when no route is set.

② Best Score

Displays the best score to date.

This is not displayed when "Eco Score" is set to "Off" or when no route is set.

3 Average fuel mileage comparison graph

Displays a comparison of the average fuel mileage up to the point the navigation system was last stopped (past average fuel mileage) and the current average fuel mileage. The display is updated every 3 seconds. The more the value moves in the direction of +, the better the fuel mileage. There are three different graph bars.

Total

A comparison of the past average fuel mileage and the average fuel mileage of the current drive.

• M: Ordinary Road

A comparison of the past average fuel mileage and the average fuel mileage for 90 seconds in the past, while the vehicle is driving on an ordinary road.

• 📆 : Motorway

Eco-friendly driving functions

Eco-friendly driving functions

A comparison of the past average fuel mileage and the average fuel mileage for 90 seconds in the past, while the vehicle is driving on a motorway.

(4) Animal icons

The number of displayed animal icons increases or decreases according to the value of "Eco Score".

- ☐ This is not displayed when "Eco Score" is set to "Off" or when no route is set.
- □ Even if you use the "Eco Graph" function immediately after you start using the navigation system for the first time, may be displayed and the function may not be available.
- ⇒ For details, refer to *Troubleshooting* on page 156.
- ☐ The display settings can be changed.
- **⊃** For details, refer to *Changing the eco-function setting* on page 126. ■

Displaying Eco Drive Level guidance

This navigation system is equipped with the "Eco Drive Level" function that estimates how well you have driven in an environmentally friendly way.

The points of "Eco Drive Level" change according to "Eco Score" when the vehicle reaches the destination. When a certain number of points is reached, the level increases and a message appears.

Tree icon



As the level increases, a tree icon changes from a young tree to a big tree.

- ☐ This is not displayed when "Eco Drive Level" is set to "Off".
- ⇒ For details of the operation, refer to Changing the eco-function setting on page 126.

Sudden start alert

If the speed of the vehicle exceeds 41 km/h (25.5 mph) within 5 seconds from the time it is started, a message appears and a warning sound beeps.



⇒ For details of the operation, refer to Changing the eco-function setting on page 126 ■

Searching for and selecting a location



CAUTION

For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the handbrake before setting your route.

☐ Some information regarding traffic regulations depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes through the location in question. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck or other delivery vehicles. Always follow the actual traffic regulations when driving.

The basic flow of creating your route

1 Park your vehicle in a safe place and apply the handbrake.



- 2 Display the "**Destination Menu**" screen.
 - **⊃** For details of the operations, refer to *Screen switching overview* on page 22.



3 Select the method of searching for your destination.



4 Enter the information about your destination to calculate route.



- 5 Confirm the location on the map.
 - → For details, refer to Setting a route to your destination on page 41.



The navigation system calculates the route to your destination, and then shows the route on the map.



- 7 Check and decide the route.
 - → For details, refer to Setting a route to your destination on page 41.



8 Your navigation system sets the route to your destination, and the map of your surroundings appears.



Release the handbrake, drive in accordance with navigation guidance.

Searching for and selecting a location

Searching for a location by address

The most frequently used function is "Address", in which the address is specified and the destination is searched.

You can select the method of searching for a location by address.

- · Searching for a street name first
- Searching for a city name first

Searching for a street name first

- □ Depending on the search results, some steps may be skipped.
- When you enter characters, the system will automatically search the database for all possible options. Only the characters you enter are active.
- If the search candidates number reaches 20 or less, the screen automatically changes to the search result screen.

1 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [Address].



3 Touch the key next to "State" and touch the desired state or territory on the list.

If the location that you want to search for is in another state or territory, this changes the area setting.

Once the region has been selected, you only have to change it when your destination is outside of the region you selected.

4 Touch [Street].



5 Enter the street name and then touch [OK].



The "Street Selection" screen appears.

- 6 Touch the street you want.
- 7 Enter the city name and then touch [OK].



The "Select City" screen appears.

- 8 Touch the desired city name.
- If you touch [27], the geographic centre of the city appears on the map screen.

Searching for and selecting a location

Enter the house number and then touch [OK].



The "House Number Selection" screen appears.

10 Touch the desired house number range.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Searching for a city name first

- Depending on the search results, some steps may be skipped.
- When you enter characters, the system will automatically search the database for all possible options. Only the characters you enter are active.
- ☐ If the search candidates number reaches. 20 or less, the screen automatically changes to the search result screen.

1 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [Address].

The "Address Search" screen appears.

3 Touch the key next to "State" and touch the desired state or territory on the list.

If the location that you want to search for is in another state or territory, this changes the area setting.

Once the region has been selected, you only have to change it when your destination is outside of the region you selected.

- Touch [City].
- Enter the city name and then touch [OK].



The "Select City" screen appears.

- Touch the desired city name.
- If you touch , the geographic centre of the city appears on the map screen.

7 Enter the street name and then touch IOK1.



The "Street Selection" screen appears.

- Touch the street you want.
- Enter the house number and then touch [OK].



The "House Number Selection" screen appears.

10 Touch the desired house number range.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Setting up a route to your home

If your home location is stored, the route to your home can be calculated by touching a single key.

1 Display the "Destination Menu" screen.

⊃ For details of the operations, refer to *Screen switching overview* on page 22.

2 Touch [Return Home].

- ☐ If you have not registered your home location, a message appears. Touch [**Register**] to start registration.
 - **⊃** For details, refer to *Registering your home* on page 125. ■

Searching for Points of Interest (POI)

Information about various facilities (Points Of Interest – POI), such as petrol stations, car parks or restaurants, is available. You can search for a POI by selecting the category (or entering the POI Name).

Searching for POIs by preset categories

You can search for POIs with a single touch from the preset category.

1 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

Downloaded from Caradio-Manual.com Manuals

2 Touch [POI].

3 Touch the desired category.

Preset categories



The "POI List" screen appears.

4 Touch the POI you want.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to *Setting a route to your destination* on page 41.

Searching for a POI directly from the name of the facilities

- ☐ If the search candidates number reaches 20 or less, the screen automatically changes to the search result screen.
- 1 Display the "Destination Menu" screen.
 - **⇒** For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [POI].

The "POI Search" screen appears.

- 3 Touch [Spell Name].
- 4 Enter the POI name and then touch [OK].

The "POI List" screen appears.

 If you change the region to search, touch the state code key and display the "State List" screen to change the setting.

State code key



Once the region has been selected, you only have to change it when your destination is outside of the region you selected.

5 Touch the POI vou want.

The searched location appears on the map screen.

- If you touch [Sort], the order of POI can be sorted.
 - Current order is indicated on the upper right of the screen.

Sorts the items in the list alphabetically.

- - Sorts the items in the list in order by distance from the vehicle position.
- ⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Searching for a nearby POI

You can search for POIs in your surroundings.

- Display the "Destination Menu" screen.
 - ⇒ For details of the operations, refer to Screen. switching overview on page 22.
- 2 Touch [POI].

The "POI Search" screen appears.

3 Touch [Near Me].

POIs are divided into several categories.

Touch the category you want.

The "POI List" screen appears.

☐ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

Touch the POI you want.

The searched location appears on the map

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Searching for POIs around the destination

☐ This function is available when the route is set.

Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [POI].

The "POI Search" screen appears.

Touch [Near Destination].

POIs are divided into several categories.

4 Touch the category you want.

The "POI List" screen appears.

☐ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

5 Touch the POI you want.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Searching for POIs around the city

You can search for POIs around a specified city.

If the search candidates number reaches 20 or less, the screen automatically changes to the search result screen.

Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [POI].

The "POI Search" screen appears.

3 Touch [Around City].

4 Enter the city name and then touch IOKI.

The "Select City" screen appears.

 If you change the region to search, touch the state code key and display the "State List" screen to change the setting.

State code key



Once the region has been selected, you only have to change it when your destination is outside of the region you selected.

5 Touch the desired city name.

The "POI List" screen appears.

• If you touch [27], the geographic centre of the city appears on the map screen.

6 Touch the category you want.

POIs are divided into several categories.

7 Touch the POI you want.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Selecting destination from "Favourites"

Storing locations you visit frequently saves time and effort.

Selecting an item from the list provides an easy way to specify the position.

☐ This function is not available if no locations have been registered in "Favourites".

 For details, refer to Storing favourite locations on page 46.

1 Display the "Destination Menu" screen.

- **⊃** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Favourites].
- 3 Touch the entry you want.



The searched location appears on the map screen

⇒ For the subsequent operations, refer to Setting a route to your destination on page 41.

Searching for POIs by using the data on the SD memory card

Creating a customised POI is possible by using the utility programme AVIC FEEDS which is available separately, on your PC. (AVIC FEEDS will be available on our website.) Storing the customised POI properly and inserting the SD memory card enables the system to use the data for searches.

1 Store the item into the SD memory card by using the AVIC FEEDS.

2 Insert an SD memory card into the SD card slot.

⇒ For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

3 Display the "Destination Menu" screen.

- **⊃** For details of the operations, refer to *Screen switching overview* on page 22.
- 4 Touch [AVIC FEEDS].

The "Select POI" screen appears.

5 Touch the item you want.

6 Touch the POI vou want.

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on the next page.

Selecting a location you searched for recently

The places that you have set as destination or waypoint in the past are automatically stored in "**History**".

- If no location is stored in Destination History, you cannot select [History]. (If you perform a route calculation, you can select [History].)
- "History" can store up to 100 locations. If the entries reach the maximum, the new entry overwrites the oldest one.

1 Display the "Destination Menu" screen.

- ➡ For details of the operations, refer to Screen switching overview on page 22.
- 2 Touch [History].
- 3 Touch the entry you want.



The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on the next page.

Searching for a location by coordinates

Entering a latitude and longitude pinpoints the location.

- 1 Display the "Destination Menu" screen.
 - **⊃** For details of the operations, refer to *Screen* switching overview on page 22.
- 2 Touch [Coordinates].
- 3 Touch [East] or [West], and then enter the longitude.



To enter W 50°1'2.5" for example, touch [**West**], [0], [5], [0], [0], [1], [0], [2], and [5].

4 Touch [North] or [South], and then enter the latitude.

To enter N 5°1'2.5" for example, touch [**North**], [0], [5], [0], [1], [0], [2], and [5].

5 Touch [OK].

The searched location appears on the map screen.

⇒ For the subsequent operations, refer to Setting a route to your destination on the next page.

After the location is decided

Setting a route to your destination

1 Search for a location.

⇒ For details, refer to Chapter 6. After searching for the destination, the Location confirmation screen appears.

2 Touch [OK].

Location confirmation screen



The destination is set, and then route calculation starts.

When the route calculation is completed, Route confirmation screen appears.

- If you press the MODE button during route calculation, the calculation is cancelled and the map screen appears.
- If you touch [Scroll], the map display is changed to the scroll mode. In the scroll mode, you can display the location more precisely to register it, or make settings.
- If you touch [Waypoint], the location is added to the "Waypoints List" screen.
 - ☐ If a destination is not set, [Waypoint] is not available.

3 Touch [OK].

Route confirmation screen



Sets the displayed route as your route, and starts the route guidance.

1 Travel time to your destination

- ② Distance to the destination
- 3 Estimated fuel cost to your destination
 - For details, refer to Inputting the fuel consumption information for calculating the fuel cost on page 123.
- (4) Route calculation condition
- If you touch **s**, the message confirming whether to cancel the calculated route appears. If you touch **[Yes]**, the calculated route is cancelled and the map screen appears.



1 Multiple Route

⇒ For details, refer to *Displaying multiple* routes on this page.

2 Options

➡ For details, refer to Modifying the route calculation conditions on the next page.

③ Profile

➡ For details, refer to Checking the current itinerary on page 43.

4 Waypoints

⊃ For details, refer to *Editing waypoints* on page 44.

Displaying multiple routes

You can select a desired route from multiple route options. Calculated routes are shown in different colours.

If you set waypoints, you cannot display multiple routes.

1 Touch [Multiple Route] on the Route confirmation screen.

Multiple route options appear.

2 Touch to log.

Another route is displayed.

3 Touch [OK].

Route confirmation screen appears.

Displaying the route overview

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Destination].
 The "Destination Menu" screen appears.
- 3 Touch [Route Overview].







- 1 Options
 - **⊃** For details, refer to *Modifying the route* calculation conditions on this page.
- ② Profile
 - **⊃** For details, refer to *Checking the current itinerary* on the next page.
- ③ Waypoints
 - → For details, refer to Editing waypoints on page 44.
- ☐ "Route Overview" is active only when the route is set.
- 4 Touch [OK].

Modifying the route calculation conditions

You can modify the conditions for route calculation and recalculate the current route.

- 1 Display the "Route Overview" screen.
 - **⊃** For details, refer to *Displaying the route overview* on this page.
- 2 Touch [Options].
- 3 Touch the desired items to change the route calculation conditions and then touch [OK].



The route is recalculated, and the Route confirmation screen appears.

Items that users can operate

Settings marked with an asterisk (*) show that these are default or factory settings.

Route Condition

This setting controls how the route should be calculated by taking into account the time, distance or main road.

Determines which condition takes priority for route calculation.

Tast*:

Calculates a route with the shortest travel time to your destination as a priority.

Short:

Calculates a route with the shortest distance to your destination as a priority.

Main Road:

Calculates a route that passes major arterial roads as a priority.

Avoid Toll Road

This setting controls whether toll roads (including toll areas) should be taken into account.

Off*:

Calculates a route that may include toll roads (including toll areas).

💯 On:

Calculates a route that avoids toll roads (including toll areas).

☐ The system may calculate a route that includes toll roads even if "On" is selected.

Avoid Ferry

This setting controls whether ferry crossings should be taken into account.

Off*:

Calculates a route that may include ferries.

🌠 On:

Calculates a route that avoids ferries.

☐ The system may calculate a route that includes ferries even if "On" is selected.

Avoid Motorway

This setting controls whether motorways may be included in the route calculation.

Off*:

Calculates a route that may include motorways.

🎢 On:

Calculates a route that avoids motorways.

☐ The system may calculate a route that includes motorways even if "On" is selected.

Time restrictions

This setting controls whether streets or bridges that have traffic restrictions during a certain time should be taken into account.

☐ If you want to set your route to avoid raised draw bridges, select "**On**".

🔘 On*:

Calculates a route while avoiding streets or bridges with traffic restrictions during a certain time.

Off:

Calculates a route while ignoring traffic restrictions.

☐ The system may calculate a route that includes streets or bridges that are subject to traffic restrictions during a certain time even if "On" is selected.

Λ

CAUTION

If the time difference is not set correctly, the navigation system cannot consider traffic regulations correctly. Set the time difference correctly.

⊃ For details, refer to *Setting the time difference* on page 135.

Learning Route

The system learns the travel history of your vehicle for each road.

This setting controls whether or not the travel history should be taken into account.

On*:

Calculates a route with the travel history taken into account.

🌃 Off:

Calculates a route without the travel history taken into account.

Clear:

Clears the current travel history.

Checking the current itinerary

You can check the route details.

- 1 Display the "Route Overview" screen.
 - **⇒** For details, refer to *Displaying the route overview* on the previous page.

2 Touch [Profile].

The "Route Profile" screen appears.



Editing waypoints

You can edit waypoints (locations you want to visit on the way to your destination) and recalculate the route so that it passes through these locations.

Adding a waypoint

Up to 5 waypoints can be set, and waypoints and final destination can be sorted automatically or manually.

- 1 Display the "Route Overview" screen.
 - → For details, refer to Displaying the route overview on page 42.
- 2 Touch [Waypoints].

The "Waypoints List" screen appears.

3 Touch [Add].



The "Select Search Method" screen appears.

4 Search for a location.



⇒ For details, refer to Chapter 6.

5 Touch [OK].



6 Touch [OK] on the "Waypoints List" screen.



The route is recalculated, and the Route confirmation screen appears.

☐ If you set waypoints, you cannot display multiple routes.

Deleting a waypoint

You can delete waypoints from the route and then recalculate the route. (You can delete successive waypoints.)

- 1 Display the "Route Overview" screen.
 - **⊃** For details, refer to *Displaying the route overview* on page 42.
- 2 Touch [Waypoints].

The "Waypoints List" screen appears.

3 Touch [Delete] next to the waypoint that you want to delete.

The touched waypoint will be deleted from the list.

4 Touch [OK] on the "Waypoints List" screen.

The route is recalculated, and the Route confirmation screen appears.

5 Touch [OK].

The map of the current position appears.

Sorting waypoints

You can sort waypoints and recalculate the route.

- You cannot sort waypoints that you have already passed.
- 1 Display the "Route Overview" screen.
 - **⊃** For details, refer to *Displaying the route* overview on page 42.
- 2 Touch [Waypoints].

The "Waypoints List" screen appears.

3 Touch [Sort].

The "Sort Waypoints" screen appears.

4 Touch the waypoint or destination.



Put them in the desired order.

- If you touch [Automatic], the destination and waypoints are sorted in the order of a nearest waypoint from the current location in the direct aerial path.
- If you touch [Clear], waypoint sort is cancelled.
- 5 Touch [OK].

The "Waypoints List" screen appears.

6 Touch [OK] on the "Waypoints List" screen.

The route is recalculated, and the Route confirmation screen appears.

7 Touch [OK].

The map of the current position appears.

Cancelling the route guidance

If you no longer need to travel to your destination, follow the steps below to cancel the route quidance.

1 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen switching overview* on page 22.

2 Touch [Cancel Route].

A message confirming the cancellation of the current route appears.

3 Touch [Yes].



The current route is deleted, and a map of your surroundings reappears.

 If you touch [Skip], the next waypoint is skipped and a new route is calculated. All other waypoints remain.

When the route calculation is completed, Route confirmation screen appears.

- ☐ **[Skip**] is available only when a waypoint is set.
- If you touch [No], the previous screen returns without deleting the route. ■

Storing favourite locations

Storing your favourite locations as "Favourites" provides you with the opportunity to save the time and effort of re-entering this information. Stored items can be made available on "Favourites" later.

Registering a location by "Favourites"

"Favourites" can store up to 400 locations. Home location is counted as one of the items in "Favourites".

- 1 Display the "Destination Menu" screen.
 - **>** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Favourites].

The "Favourites" screen appears.

3 Touch [Add].

The "Select Search Method" screen appears.

- 4 Search for a location.
 - For details about the search methods, refer to Chapter 6.
- 5 When the map of the location you want to register is displayed, touch [OK]. The location is registered, and then the "Edit Favourite" screen appears.
 - **⊃** For details, refer to *Editing the favourite location in the list* on this page.
- 6 Touch [OK].

The registration is complete.

Registering a location by scroll mode

- ☐ This function is available when "Registration" is set in the "Quick Access" menu.
 - → For details, refer to Selecting the "Quick Access" menu on page 133.

 Touch and drag the screen to scroll the map to the position that you want to register.



- 2 Touch to display the "Quick Access" menu.
- 3 Touch <a>

The location is registered, and then the "Edit Favourite" screen appears.

- **⇒** For details, refer to *Editing the favourite location in the list* on this page.
- 4 Touch [OK].

The registration is complete.

Editing registered locations Editing the favourite location in the list

- 1 Display the "Destination Menu" screen.
 - **⊃** For details of the operations, refer to *Screen* switching overview on page 22.
- 2 Touch [Favourites].

The "Favourites" screen appears.

3 Touch next to the location that you want to edit.

The "Edit Favourite" screen appears.

4 Touch the item that you want to change the setting.



① Name

You can enter the desired name.

Up to 17 characters can be input for the name.

② Phone#

You can edit the registered phone number. To dial the number, touch [**Call**].

The maximum digits you can enter for the phone number is 15.

③ Icon

You can change the symbol displayed on the map and "**Favourites**".

4 Modify Location

You can change the registered location by scrolling the map.

5 Touch [OK].

The registration is complete.

Editing your home

When you have already registered your home, you can edit the information of your home.

1 Display the "Destination Menu" screen.

⊃ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [Favourites].

☐ Home location is displayed on the top of the list.

3 Touch mext to the home location.



The "Edit Favourite" screen appears.

4 Touch the item that you want to change the setting.



① Phone#

To dial the number, touch [Call].

2 Modify Location

You can change the registered location by scrolling the map.

☐ For home information, [Name] and [Icon] are not editable.

5 Touch [OK].

The registration is complete.

Sorting the favourite locations in the list

1 Display the "Destination Menu" screen.

→ For details of the operations, refer to Screen switching overview on page 22.

2 Touch [Favourites].

The "Favourites" screen appears.

3 Touch [Sort].

Each time you touch [**Sort**] changes the sort order.

- ☐ Current order is indicated on the upper right of the screen.
- **™** ∓

Sorts the items in the list in order of the recently used items.

● ABC. ▼

Sorts the items in the list alphabetically.

• 🐂 🥫

Sorts the items in the list in order by distance from the vehicle position.

Deleting a favourite location from the list

- 1 Display the "Destination Menu" screen.
 - For details of the operations, refer to Screen switching overview on page 22.
- 2 Touch [Favourites].

The "Favourites" screen appears.

- 3 Touch [Delete].
- 4 Select the location you want to delete.



A tick mark appears next to the selected location

- If you touch [AII], you can select all entries. If you want to deselect all entries, touch [None].
- 5 Touch [Delete].



A message will appear asking you to confirm the deletion.

6 Touch [Yes].



The data you selected is deleted.

■ If you touch [No], the deletion is cancelled. ■

Exporting and importing favourite locations

Exporting favourite locations

You can export the "**Favourites**" data to an SD memory card for editing by using the utility programme AVIC FEEDS which is available separately, on your PC.

- ☐ If there is previous data in the SD memory card, the data is overwritten with new data.
- 1 Insert an SD memory card into the SD card slot.
 - For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.
- 2 Display the "Destination Menu" screen.
 - **⊃** For details of the operations, refer to *Screen* switching overview on page 22.
- 3 Touch [Favourites].

The "Favourites" screen appears.

4 Touch **→**P.

Data export starts.

After the data is exported, the completion message appears.



5 Touch [OK].

The "Favourites" screen appears.

Importing favourite locations

You can import the locations that you have edited on the utility programme AVIC FEEDS to "Favourites".

- When a location that is already registered in "Favourites" is imported, the location is overwritten.
- 1 Store the item into the SD memory card by using the AVIC FEEDS.

2 Insert an SD memory card into the SD card slot.

For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

3 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

4 Touch [Favourites].

The "Favourites" screen appears.

5 Touch P→.

The message confirming whether to replace the stored items appears.



6 Touch [Yes].

Data import starts.

After importing the data is finished, the "Favourites" screen appears.

Deleting the destination history from the list

Items in "**History**" can be deleted. All entries in "**History**" can be deleted at once.

1 Display the "Destination Menu" screen.

⊃ For details of the operations, refer to *Screen switching overview* on page 22.

2 Touch [History].

The "**Destination History List**" screen appears.

3 Touch [Delete].

The "Delete from History" screen appears.

4 Select the location you want to delete.



A tick mark appears next to the selected location.

• If you touch [**AII**], you can select all entries. If you want to deselect all entries, touch [**None**].

5 Touch [Delete].



A message will appear asking you to confirm the deletion.

6 Touch [Yes].

The data you selected is deleted.

■ If you touch [No], the deletion is cancelled. ■

Please note that a separately sold Traffic tuner (ND-TMC10) should be connected to use the traffic information function.

You can check real-time traffic information transmitted by the Traffic Message Channel (TMC) of the FM Radio Data System (RDS) on the screen. Such traffic information is updated periodically. When the navigation system receives updated traffic information, the navigation system will overlay the traffic information on your map and also display detailed text information when available. When you are travelling along a route and there is traffic information on your current route, the system will detect it and ask you if you would like to be rerouted, or suggest another route automatically.

- □ The system acquires the traffic information up to 150 km in radius from the vehicle position. (If there is a lot of traffic information around your vehicle, the radius will be shorter than 150 km.)
- The navigation system provides the following functions by using the information from RDS-TMC service:
 - Displaying a list of traffic information
 - Displaying traffic information on a map
 - Suggesting a route to avoid traffic jams by using traffic information
- ☐ The term "traffic jam" in this section indicates the following types of traffic information: slow, queuing and stationary traffic and closed/blocked roads. This information is always taken into consideration when checking your route, and the information related with these events cannot be turned off. If you select other traffic information in "Traffic Settings", the information can be displayed in a list or on a map.
 - → For details, refer to Selecting traffic information to display on page 53.

Checking all traffic information

Traffic information is displayed on a screen in the form of a list. This allows you to check how many traffic incidents have occurred, their location and their distance from your current position.

1 Display the "Destination Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

2 Touch [Traffic].

The "Traffic Menu" screen appears.

3 Touch [Traffic List].

The "**Traffic List**" screen appears.
The list with received traffic information is shown.

4 Select an incident you want to view in detail.



The details of the selected incident are displayed.

- □ Touching an incident you want to see allows you to view the detailed information of the incident. If the information cannot be displayed on one screen, touch or for to view the remaining information.
- ☐ Touching ☐ allows you to check the location on a map. (Traffic information without positional information cannot be checked on a map.)
- If you touch [**Sort**], the traffic information can be sorted.

Each time you touch the key changes the setting.

•

You can sort the traffic information by distance from your current position.

When you touch [**Traffic List**], the list displayed will be sorted according to the linear distance from the vehicle position to the traffic information.

When you touch [**Traffic on Route**], the list displayed will be sorted according to the distance from the vehicle position to the traffic information.

ARC

You can sort the traffic information in alphabetical order.

• 🚵 🔻

You can sort the traffic information according to the incident.

The list will be sorted in the order of closed/ blocked roads, traffic jam, accidents, road works and others.

Current order is indicated on the upper right of the screen.

• If you touch [**Refresh**] while new traffic information is received, current information is changed and old information is removed. The traffic information list is updated to reflect the new situation.

5 Touch ≤ .

The previous screen returns.

Checking traffic information on the route

All traffic information on the current route is displayed on screen in a list.

- 1 Display the "Destination Menu" screen.
 - **⇒** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Traffic].

The "Traffic Menu" screen appears.

3 Touch [Traffic on Route].

The "Traffic on Route" screen appears. The method for checking the content displayed on the screen is the same as "Traffic List" screen.

⊃ For details, refer to *Checking all traffic information* on the previous page. ■

How to read traffic information on the map

The traffic event information displayed on the map is as follows.

- □ A line is displayed only when the map scale is 5 km (2.5 miles) or lower.
- ☐ Icons appear only when the scale on the map is 20 km (10 miles) or lower. If the scale is changed, the icons are resized according to the selected scale.

Traffic event icon



- 🛕 🛦 with yellow line: Slow and queuing traffic
- \(\begin{align*} \text{with red line:} \\ \text{Stationary traffic} \end{align*}
- with black line: Closed/blocked roads
- <u>A</u> etc.: Accidents, constructions, etc.

Setting an alternative route to avoid traffic jams

The navigation system checks at regular intervals whether or not there is the traffic information on your route. If the navigation system detects any traffic jams on your current route, the system tries to find a better route in the background.

The following types of traffic incidents on the route will be checked: slow, queuing and stationary traffic, and closed/blocked roads except for closed motorway exits/entrances.

Checking for traffic jams automatically

If there is information about traffic jams on your current route and if an alternative route can be found, the navigation system will recommend a new alternative route automatically. In such a case, the following screen will appear.



- Difference in distance and travel time between the existing route and new route.
- 2 Distance from the current position of your vehicle to the point of entry into the new route.
- There is no action if the system cannot find any traffic jam information on your route or the system cannot find an alternative.

Touch [New].

The recommended route is displayed on the screen.

■ If you touch [Current] while the recommended route is displayed, the screen switches to the current route display.

2 Touch [OK].

The displayed route is set.

■ When no selection is made, the screen returns to the previous screen.

Checking traffic information manually

Touching the notification icon on the map screen allows you to check traffic information on your route while the icon is displayed. The notification icon is only displayed on the navigation map screen if there is any traffic information on your route.

The notification icon is not available if your vehicle deviates from the route.

Set [Show Traffic Incident] to "View".

⇒ For details, refer to Displaying the traffic notification icon on page 128.

2 Display the map screen.

The icon appears when the system acquires traffic information on the current route.

Touch the icon while the icon is displayed.

Notification icon



Traffic information on the current route is displayed on the map screen.

Touch [Diversion] to search for an alternative route.



After touching [Diversion], the route is recalculated taking all traffic jams on your current route into account.

- ☐ [**Diversion**] will be available only when the system can find traffic jams.
- Notification icon shows the nearest traffic information on the route. However, if you touch [Diversion], the route is recalculated by taking into account not only this information, but also all traffic jam information on the route.
- **⇒** For details, refer to *Checking for traffic jams* automatically on this page.
- If you touch [List], the "Traffic on Route" screen appears.
- If you touch ≤, the message disappears and the map screen returns.

Selecting traffic information to display

There are different types of traffic information that can be received via the RDS-TMC service, and you can select which types will be incorporated and displayed on your navigation system

- 1 Display the "Destination Menu" screen.
 - **>** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Traffic].

The "Traffic Menu" screen appears.

3 Touch [Traffic Settings]. The "Traffic Settings" screen appears.

4 Touch [Displayed Traffic Info].



The "Traffic Type Settings" screen appears.

5 Touch the traffic information item to display.

A tick mark appears next to the selected traffic information.

- If you touch [**AII**], you can select all entries. If you want to deselect all entries, touch [**None**].
- 6 Touch [OK].



The selected traffic information icon is added to the screen.

7 Touch [OK]. 🔳

Selecting preferred RDS-TMC service provider manually

A default preferred TMC service provider for each country has been set. The navigation system tunes to the radio station with good reception among the preferred RDS-TMC service providers. If you want to set another preferred RDS-TMC service provider, you can manually select one from available RDS-TMC service providers.

- 1 Display the "Destination Menu" screen.
 - **⇒** For details of the operations, refer to *Screen* switching overview on page 22.
- 2 Touch [Traffic].
 The "Traffic Menu" screen appears.
- 3 Touch [TMC Provider Selection].
- 4 Touch the desired service provider on the list.

After touching a service provider, the system starts tuning to the selected RDS-TMC service provider. When the tuning is successful, the system returns to the map display.

If your devices feature Bluetooth® technology, this navigation system can be connected to your devices wirelessly. This section describes how to set up a Bluetooth connection.

For details about the connectivity with the devices featuring Bluetooth wireless technology. refer to the information on our website

Preparing communication devices

This navigation system has a built-in function to use devices featuring Bluetooth wireless technology.

⇒ For details, refer to Notes for hands-free phoning on page 67.

You can register and use devices that feature the following profiles with this navigation sys-

- HFP (Hands Free Profile)
- A2DP (Advanced Audio Distribution Pro-
- ☐ If the registered device features both HFP and A2DP the hands-free connection is made and then the Bluetooth audio connection is made.
 - If the registered device features either profile, the corresponding connection is made.
- When the navigation system is turned off, the Bluetooth connection is also disconnected. When the system restarts, the system automatically attempts to reconnect the previously-connected device. Even when the connection is severed for some reason, the system automatically reconnects the specified device (except when the connection is severed due to device operation).

Registering your Bluetooth devices

You need to register your devices featuring Bluetooth wireless technology when you connect it for the first time. A total of 5 devices can be registered. Three registration methods are available:

- Searching for nearby Bluetooth devices
- Pairing from your Bluetooth devices
- Searching for a specified Bluetooth device
- If you try to register more than 5 devices. the system will ask you to select one of the registered devices to delete.
 - **⇒** For details, refer to *Deleting a registered* device on page 57.

Searching for nearby Bluetooth devices

The system searches for available Bluetooth devices near the navigation system, displays them in a list, and registers them for connection.

Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific-action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

Display the "Settings Menu" screen.

⇒ For details of the operations, refer to *Screen* switching overview on page 22.

3 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

Touch [Registration].

The "Nearby Device List" screen appears. The system searches for Bluetooth devices waiting for the connection and displays them in the list if a device is found.

Up to 30 devices will be listed in the order that the devices are found.

5 Wait until your Bluetooth device appears in the list.







If you cannot find the Bluetooth device that you want to connect, check that the device is waiting for the Bluetooth wireless technology connection.

6 Touch the Bluetooth device name you want to register.







If you touch [Search Again], the system starts searching for Bluetooth devices waiting for connection, and displays them in the list format when any devices are detected.

7 Enter the password (the default password is "1111") using the Bluetooth device.

Enter the password while the message "Please follow the instructions on your mobile phone." appears.

The device is registered in the navigation system

After the device is successfully registered, the Bluetooth connection is established from the navigation system.

Pairing from your Bluetooth devices

You can register the Bluetooth device by setting the navigation system to standby mode and requesting connection from the Bluetooth device.

1 Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific-action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Display the "Settings Menu" screen.

⊃ For details of the operations, refer to *Screen switching overview* on page 22.

3 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

4 Touch [Registration].

The "Nearby Device List" screen appears.

5 Touch [Register from mobile phone].

The navigation system waits for a Bluetooth wireless technology connection.



6 Register the navigation system on your Bluetooth device.

If your device asks you to enter a password, enter the password of the navigation system. When the device is successfully registered, the connection settings are made from the device.

☐ If registration fails, repeat the procedure from the beginning.

Searching for a specified **Bluetooth device**

If you cannot connect your Bluetooth device using the nearby device search and if your Bluetooth device is found in the list, try the following method.

1 Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific-action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

Display the "Settings Menu" screen.

⇒ For details of the operations, refer to Screen switching overview on page 22.

Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

Touch [Registration].

The "Nearby Device List" screen appears.

Touch [Select specific devices].

The "Select specific devices" screen appears.

Touch the Bluetooth device name to be connected.



The system searches for Bluetooth devices waiting for the connection and displays them in the list if a device is found.

☐ If you cannot find the desired device name on the list, touch [Other phones] to search the devices available nearby.

Wait until your Bluetooth device appears in the list.







If you cannot find the Bluetooth device that you want to connect, check that the device is waiting for the Bluetooth wireless technology connection.

Touch the Bluetooth device name you want to register.







- If you touch [Search Again], the system starts searching for Bluetooth devices waiting for connection, and displays them in the list format when any devices are detected.
- Enter the password (the default password is "1111") using the Bluetooth device.

Enter the password while the message "Please follow the instructions on your mobile phone." appears.

The device is registered in the navigation system.

After the device is successfully registered, the Bluetooth connection is established from the navigation system.

Deleting a registered device

When you have already registered 5 Bluetooth devices and you want to add another one, you must first delete one of the registered devices.

- ☐ If a registered phone is deleted, all the phone book entries and call history lists that correspond to the phone will be also cleared
- 1 Display the "Settings Menu" screen.
 - **⇒** For details of the operations, refer to *Screen* switching overview on page 22.
- 2 Touch [Bluetooth Settings]. The "**Bluetooth Settings**" screen appears.

Touch [Registration].

A message prompting you to delete a registered device appears.

Touch [OK].



The "Delete from Connection List" screen appears.

Touch the Bluetooth device name that you want to delete.



The device is deleted.

Connecting a registered Bluetooth device manually

The navigation system automatically connects the Bluetooth device selected as the target of connection. However, connect the Bluetooth device manually in the following cases:

- Two or more Bluetooth devices are registered, and you want to manually select the device to be used.
- You want to reconnect a disconnected. Bluetooth device.
- Connection cannot be established automatically for some reason.

If you start connection manually, carry out the following procedure. You can also connect the Bluetooth device by having the navigation system detect it automatically.

Activate the Bluetooth wireless technology on your devices.

For some Bluetooth devices, no specific-action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

- Display the "Settings Menu" screen.
 - ⇒ For details of the operations, refer to Screen switching overview on page 22.
- Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

Touch [Connection].

The "Connection List" screen appears.

5 Touch the name of the device that you want to connect.



The "Select Profile" screen appears.

6 Touch the profile that you want to connect.



You can select the following profiles:

Handsfree and Audio:

Connects the device as the hands-free phone and the Bluetooth audio player.

Audio:

Connects the device as Bluetooth audio player.

Handsfree:

Connects the device as the hands-free phone.

Connection starts.

When a connection is successfully established, a connection complete message appears and the map screen returns by touching **[OK]**.

- □ To cancel the connection to your device, touch [Cancel].
- If connection fails, check whether your device is waiting for a connection and then retry.

Setting for priority connecting

The selected device is set for priority connecting.

And one of the following icons is indicated next to the device name.

•

Appears when the device is registered so that it will be preferentially paired with both the hands-free and Bluetooth audio connection.

• 🐌

Appears when the device is registered so that it will be preferentially paired with the Bluetooth audio connection.

• 🗱

Appears when the device is registered so that it can be preferentially paired with the hands-free connection.



For your safety, avoid talking on the phone as much as possible while driving.

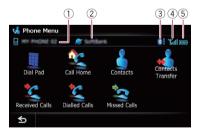
If your mobile phone features Bluetooth technology, this navigation system can be connected to your mobile phone wirelessly. Using this hands-free function, you can operate the navigation system to make or receive phone calls. You can also transfer the phone book data stored in your mobile phone to the navigation system. This section describes how to set up a Bluetooth connection and how to operate a mobile phone featuring Bluetooth technology on the navigation system.

For details about the connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

Displaying the phone menu

Use the "**Phone Menu**" if you connect the mobile phone to the navigation system for utilisation.

- ⇒ For details, refer to Chapter 11.
- 1 Press the HOME button to display the "Top Menu" screen.
- **2 Touch [Phone].** The "**Phone Menu**" screen appears.



- 1) Name of connected mobile phone
- Network name of the mobile phone company
- 3 Strength of the Bluetooth connection between the navigation system and the device
- 4 Reception status of the mobile phone
- (5) Battery status of the mobile phone

Making a phone call

You can make a phone call in many different ways.

Direct dialling

- 1 Display the "Phone Menu" screen.
 - For details, refer to *Displaying the phone menu* on this page.
- 2 Touch [Dial Pad].

The "Dial Input" screen appears.

3 Touch the number keys to enter the phone number.



The phone number that was input is displayed.

When the input is complete, [OK] becomes

- If you touch **5**, the previous screen returns.
- 4 Touch [OK] to make a call.
 - ☐ To cancel the call after the system starts dialling, touch ☐.
- 5 Touch **Touch** to end the call.

Making a call home easily

You can call home without taking the time to enter the phone number if the phone number has been registered.

1 Display the "Phone Menu" screen.

⇒ For details, refer to Displaying the phone menu on the previous page.

2 Touch [Call Home].

Dialling home starts.

- If you have not registered your home number, a message appears. Touch [Register] to start registration.
 - → For details, refer to Registering your home on page 125.

Calling a number in the phone book

You can select and call a contact from the phone book entries transferred to the navigation system.

- Before using this function, you need to transfer the phone book entries stored in your mobile phone to the navigation system.
- → For details, refer to Transferring the phone book on page 63.

Searching for a contact to call on the alphabet tabs

1 Display the "Phone Menu" screen.

⇒ For details, refer to Displaying the phone menu on the previous page.

2 Touch [Contacts].

The "Contacts List" screen appears.

3 Touch alphabet tabs.



The screen jumps to the top of the page displaying the entries that start with the selected letter or number.

- ☐ Touching [#ABCDE] displays all entries that start with symbols or numbers.
- Touching [Others] displays the page including entries that are not assigned to any of the other tabs.

4 Touch the desired name on the list. The "Contacts Type Selection" screen appears.

5 Touch the desired entry on the list to make a call.

6 Touch to end the call.

Calling a number by searching by name

- 1 Display the "Phone Menu" screen.
 - ➡ For details, refer to Displaying the phone menu on the previous page.

2 Touch [Contacts].

The "Contacts List" screen appears.

3 Touch [Search].

The "Contacts Name Search" screen appears. You can search by the names registered in the "Contacts List" screen.

4 Enter the desired name and then touch IOKI.



The "Contacts Name Search Results" screen appears.

- 5 Touch the desired name on the list. The "Contacts Type Selection" screen appears.
- 6 Touch the desired entry on the list to make a call.
- 7 Touch **___** to end the call.

Dialling from the history

The most recent calls made (dialled), received and missed are stored in the call history list. You can browse the call history list and call numbers from it.

- Each call history saves 30 calls per registered mobile phone. If the number of calls exceeds 30, the oldest entry will be deleted.
- 1 Display the "Phone Menu" screen.
 - → For details, refer to Displaying the phone menu on page 59.
- 2 Touch [Received Calls], [Dialled Calls] or [Missed Calls].

The selected call history list appears.

3 Touch an entry on the list.



Dialling starts.

- ☐ To cancel the call after the system starts dialling, touch ...
- If you touch [**Detail**], the "**Detailed Information**" screen appears.



You can check the details of the party before making a phone call.

4 Touch to end the call.

Dialling a favourite location

You can make a call to an entry stored in the "Favourites" list.

- 1 Display the "Destination Menu" screen.
- **⊃** For details of the operations, refer to *Screen* switching overview on page 22.
- 2 Touch [Favourites].

The "Favourites" screen appears.

3 Touch next to the location that you want to make a call.

The "Edit Favourite" screen appears.

- 4 Touch [Call] to make a call.
 - ☐ To cancel the call after the system starts dialling, touch <a><a><a>.
- 5 Touch **___** to end the call.

Dialling a facility's phone number

You can make a call to facilities with phone number data.

- ☐ You cannot make a call to locations or POIs that have no phone number data.
- 1 Display the "Destination Menu" screen.
 - **⊃** For details of the operations, refer to *Screen switching overview* on page 22.

2 Touch [POI].

The "POI Search" screen appears.

3 Search for the POI.

The "POI List" screen appears.

⊃ For details of the operation, refer to *Searching for Points of Interest (POI)* on page 37.

4 Touch next to the POI that you want to call.

The "POI Information" screen appears.

5 Touch [Call] to make a call.

- □ To cancel the call after the system starts dialling, touch .
- 6 Touch **to end the call.**

Dialling from the map

You can make a call by selecting the icon of a registered location or a POI icon from the map screen.

- ☐ You cannot make a call to locations or POIs that have no phone number data.
- 1 Scroll the map, and place the cursor on an icon on the map.
- 2 Touch 🛐.

The "Information List" screen appears.

3 Touch the POI you want.

The "POI Information" screen appears.

4 Touch [Call] to make a call.

- □ To cancel the call after the system starts dialling, touch .
- 5 Touch **Touch** to end the call.

Receiving a phone call

You can perform hands-free answering by using the navigation system.

Answering an incoming call

The system informs you that it is receiving a call by displaying a message and producing a ring sound.



- You can set the system to automatically answer incoming calls. If not set to automatically answer incoming calls, you will have to answer the calls manually.
 - **⊃** For details, refer to *Answering a call automatically* on page 65.
- If the voice on the other end of the call is too quiet to hear, you can adjust the volume of the received voice.
 - **⊃** For details, refer to *Setting the Volume* for Guidance and Phone on page 136.
- The registered name appears if the phone number of the received call is already registered in "Contacts".
- Depending on the caller ID service, the phone number of the received call may not be displayed. "Unknown" appears instead.

1 To answer an incoming call, touch ______.

The operation menu during a call appears.

- If you touch [**Vol** –] or [**Vol** +], you can adjust the ring tone volume.
- If you touch ____, an incoming call is rejected.

The rejected call is recorded in the missed call history list.

→ For details, refer to Dialling from the history on the previous page.

2 Touch **___** to end the call.



The call ends.

- You may hear a noise when you hang up the phone.
- If you touch [**Vol** –] or [**Vol** +], you can adjust the volume when talking.
- If you touch [Close Menu], the operation menu during call is minimised.

To display the menu again, touch **____**.



Transferring the phone book

You can transfer the phone book entries from your mobile phone to the phone book of the navigation system.

- Depending on the mobile phone, phone book may be called Contacts, Business Card or something else.
- With some mobile phones, it may not be possible to transfer the entire phone book at once. In this case, transfer addresses one at a time from your phone book using your mobile phone.
- If you connect the mobile phone featuring auto-synchronisation function, phone book transfer or synchronisation will be automatically performed.

- ☐ A maximum of 1 000 entries can be transferred per mobile phone. If the entries exceed 1 000, the extra entries will not be transferred. If more than one number is registered for one person, such as work place and home, each number may be counted separately.
- Each entry can hold up to 5 phone numbers.
- Depending on the mobile phone that is connected to this navigation system via Bluetooth technology, this navigation system may not be able to display the phone book correctly. (Some characters may be garbled.)
- ☐ If the phone book in the mobile phone contains image data, the phone book may not be correctly transferred.
- ☐ The transferred data cannot be edited on the navigation system.
- 1 Connect the mobile phone that has the phone book to transfer.
 - → For details, refer to Connecting a registered Bluetooth device manually on page 57.
- 2 Touch [Contacts Transfer] on the "Phone Menu" screen.
- 3 Check that the following screen is displayed, and operate your mobile phone to transfer the phone book entries.



When data transfer is finished, a message asking whether you want to transfer more data appears.

Touch [Yes] to continue the transfer.

4 Touch [No].



The transferred data is imported to the navigation system.

When the data is successfully imported, an import complete message is displayed and the "Contacts List" screen appears.

☐ It may take time depending on how many entries will be transferred.

Deleting registered contacts

- 1 Display the "Phone Menu" screen.
 - ⇒ For details, refer to Displaying the phone menu on page 59.
- 2 Touch [Contacts].

The "Contacts List" screen appears.

3 Touch [Delete].

The "Delete from Contacts" screen appears.

4 Touch the entry you want to delete.

A tick mark appears next to the entry.

• If you touch [All], you can select all entries. If you want to deselect all entries, touch [None].

5 Touch [Delete].

The message confirming whether to delete the entry appears.

6 Touch [Yes].

The entry is deleted.

If you touch [No], the deletion is cancelled.

Changing the phone settings Editing the device name

You can change the device name to be displayed on your mobile phone. (Default is "PIONEER NAVI".)

- 1 Display the "Settings Menu" screen.
 - **⊃** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

3 Touch [Device Name].

The keyboard to enter the name appears.

4 Touch

to delete the current name, and enter the new name by using the keyboard.



Up to 16 characters can be entered for a device name.

5 Touch [OK].

The name is changed.

Editing the password

You can change the password to be used for authentication on your mobile phone. (Default is "1111".)

- Four to eight characters can be entered for a password.
- 1 Display the "Settings Menu" screen.
 - → For details of the operations, refer to Screen switching overview on page 22.
- 2 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

3 Touch [Password].

The "Set Password" screen appears.

- 4 Touch <a> to delete the current password, and enter the new password by using the keyboard.
- 5 Touch [OK].

The password is changed.

Stopping Bluetooth wave transmission

You can stop transmission of electric waves by turning off the Bluetooth function. If you do not use the Bluetooth wireless technology, we recommend selecting "Off".

- 1 Display the "Settings Menu" screen.
 - → For details of the operations, refer to Screen switching overview on page 22.
- **2 Touch [Bluetooth Settings].** The "Bluetooth Settings" screen appears.
- **3 Touch [Bluetooth On/Off].** Each touch of [**Bluetooth On/Off**] changes the settings as follows:
 - On (default): Turns on Bluetooth function.
 - Off:
 Turns off Bluetooth function.

Echo cancelling and noise reduction

When you are operating hands-free phoning in the vehicle, you may hear an undesirable echo. This function reduces the echo and noise while you are using hands-free phoning, and maintains a certain sound quality.

- 1 Display the "Settings Menu" screen.
 - **⊃** For details of the operations, refer to *Screen switching overview* on page 22.
- 2 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

3 Touch [Echo Cancel].

Each touch of [**Echo Cancel**] changes the settings as follows:

On (default):

Activates echo cancelling and noise reduction.

• Off

Deactivates echo cancelling and noise reduction.

Answering a call automatically

The navigation system automatically answers incoming calls to the mobile phone, so you can answer a call while driving without taking your hands off the steering wheel.

- 1 Display the "Settings Menu" screen.
 - → For details of the operations, refer to *Screen* switching overview on page 22.
- **2** Touch [Bluetooth Settings]. The "Bluetooth Settings" screen appears.
- **3 Touch [Auto Answer Preference].** The "**Auto Answer Preference**" screen appears.
- 4 Touch the desired option.



On this screen, you can select the following items:

- Off (default):
 - No automatic response. Respond manually.
- Immediately: Answers immediately.
- After 3 seconds:

 Answers after three seconds.
- After 6 seconds:

Answers after six seconds.

After 10 seconds:

Answers after ten seconds.

Setting the automatic rejection function

If this function is on, the navigation system automatically rejects all incoming calls.

1 Display the "Settings Menu" screen.

⊃ For details of the operations, refer to *Screen switching overview* on page 22.

2 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

3 Touch [Refuse All Calls].

Each touch of [**Refuse All Calls**] changes the settings as follows:

- Off (default): Accepts all incoming calls.
- On:
 Rejects all incoming calls.
- If both "Refuse All Calls" and "Auto Answer Preference" are activated, "Refuse All Calls" takes priority and all incoming calls are automatically rejected.
- If "Refuse All Calls" is set to "On", rejected incoming calls will not be stored in the missed call list.

Clearing memory

You can clear the memory of each item that corresponds to the connected mobile phone: phone book, dialled/received/missed call history list and preset dials.

1 Display the "Settings Menu" screen.

 For details of the operations, refer to Screen switching overview on page 22.

2 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

3 Touch [Clear Memory].

The "Clear Memory" screen appears.

4 Touch the desired option.



On this screen, you can select the following items:

- Contacts:
 - Clears the registered phone book.
- Received Calls List:

 Clears the received call history list.
- Dialled Calls List:

 Clears the dialled call history list.
- Missed Calls List:
 Clears the missed call history list.
- If you touch [Clear All], all the data is cleared that correspond to the connected mobile phone.

5 Touch [Yes].

Data on the selected item is cleared from this navigation system's memory.

If you do not want to clear the memory that you have selected, touch [No].

Updating the Bluetooth wireless technology software

Update files will be available for download in the future. You will be able to download the latest update from an appropriate website to your PC.

- Before you download the files and install the update, read through the instructions on the website. Follow the instructions on the website for steps until [Firmware update] becomes active.
- 1 Store the updated files into the SD memory card.
- 2 Insert an SD memory card into the SD card slot.
 - For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

3 Display the "Settings Menu" screen.

⊃ For details of the operations, refer to *Screen* switching overview on page 22.

4 Touch [Bluetooth Settings].

The "Bluetooth Settings" screen appears.

5 Touch [Firmware update].

The current version is displayed.



6 Touch [Firmware update].

The message confirming whether or not to start the update will appear.

7 Touch [Yes].

Update starts.

8 Wait until the upgrade process is complete.

A message will appear after the update is complete.

9 Touch [OK].

The message disappears, and the map screen returns.

10 Eject the SD memory card.

Notes for hands-free phoning

General notes

- Connection to all mobile phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this navigation system and your mobile phone must be 10 metres or less when sending and receiving voice and data via Bluetooth technology. However, the actual transmission distance may be shorter than the estimated distance, depending on the usage environment.

- With some mobile phones, the ring sound may not be output from the speakers.
- If private mode is selected on the mobile phone, hands-free phoning may be disabled.

Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile phone for detailed instructions.
- With mobile phones, phone book transfer may not work even though your phone is paired with the navigation system. In that case, disconnect your phone, perform pairing again from your phone to the navigation system, and then perform the phone book transfer.

Making and receiving calls

- You may hear a noise in the following situations:
 - When you answer the phone by using the button on the phone.
 - When the person on the other end of line hangs up the phone.
- If the person on the other end of the phone call cannot hear the conversation due to an echo, decrease the volume level for handsfree phoning. This may reduce the echo.
- With some mobile phones, even if you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.
- The registered name appears if the phone number of the received call is already registered in the phone book. When one phone number is registered under different names, the name that comes first in the phone book is displayed.
- If the phone number of the received call is not registered in the phone book, the phone number of the received call appears.

The received call history and the dialled number history

 Calls made or editing performed only on your mobile phone will not be reflected to the dialled number history or phone book in the navigation system.

- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.
- If calls are made by operating your mobile phone, no history data will be recorded in the navigation system.

Phone book transfers

- If there are more than 1 000 phone book entries on your mobile phone, all entries may not be downloaded completely.
- With some mobile phones, it may not be possible to transfer all items in the phone book at one time. In this case, transfer items one by one from your mobile phone.
- Depending on the mobile phone, this navigation system may not display the phone book correctly. (Some characters may be garbled, or first and last names may be reversed.)
- If the phone book in the mobile phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the mobile phone.)
- Depending on the mobile phone, phone book transfer may not be available.

Basic operations of the AV source

This chapter describes the basic operations of the AV source.

You can play or use the following sources with your Pioneer navigation system.

- TUNER (FM, AM)
- CD
- ROM (in MP3, AAC, WMA)
- DVD-Video
- DivX
- USB
- SD

The following sources can be played back or used by connecting an auxiliary device.

- iPod
- Bluetooth audio
- AV input 1 (AV1)
- AV input 2 (AV2)

Displaying the AV operation screen

- Press the MODE button when the map screen is displayed.
 - The AV operation screen can also be displayed by touching [AV Source] on the "Top Menu".

Selecting a source

Source icons



1 Touch, then drag any source icons up or down to display additional source icons.

The AV source icons will scroll, and previously hidden icons will appear.

2 Tap the icon of the source you want to select.

The operation screen of the selected source appears.

☐ The currently selected source icon is highlighted. ■

Operating list screens (e.g. iPod list screen)

This describes the operations when a list screen is displayed.

☐ For information on how to display the list screen, refer to the descriptions within the desired source portion of this manual.

Switching between the AV operation screen and the list screen

The following example describes how to switch between the AV operation screen and the artist list screen of iPod.

1 Touch the appropriate key to display the list that you want.



2 Touch the key on the right edge of the screen.



The AV operation screen returns.

Basic operations of the AV source

Selecting an item

1 Scroll the list by dragging items up or down to display the item you want to select.



- Flicking a list item enables you to quickly scroll through the list.
 To stop scrolling, gently touch the list.
- 2 Tap the item.
 - ☐ The item currently selected is highlighted.

Returning to the previous display

● Touch **5** to return to the previous screen. ■

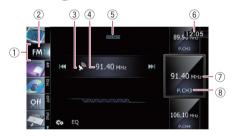
Using the radio (FM)

You can listen to the radio by using the navigation system. This section describes operations for radio (FM).

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.
- 2 Tap [FM] on the left edge of the screen to display the "FM" screen.
- 3 Use the touch panel keys on the screen to control the radio.
 - ➤ For details, refer to *Using the touch panel keys* on the next page. ■

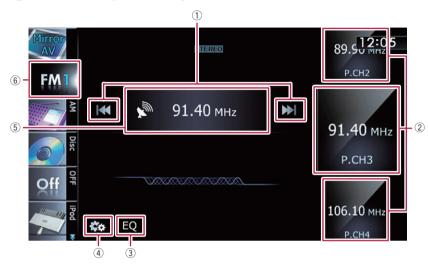
Reading the screen



- 1 Source icon
 - Shows which source has been selected.
- ② Band indicator Shows which band the radio is tuned to: FM1 to FM3.
- 3 Signal level indicator
- 4 Frequency indicator
- STEREO indicator Shows that the frequency selected is being broadcast in stereo.
- 6 Current time
- Trequency indicator Shows the frequency of the preset item.
- Treset number indicator
 Shows what preset item has been selected.

Using the radio (FM)

Using the touch panel keys



Performs manual tuning

To tune manually, touch $[\bowtie \blacktriangleleft]$ or $[\triangleright \bowtie]$ briefly. The frequencies move up or down one step at a time.

Performs seek tuning

To perform seek tuning, touch and hold [►] or [►►I] for about one second and then release. The tuner will scan frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by touching either [► or [► I] briefly.
- ☐ If you keep holding [I◄◄] or [►►I], you can skip broadcasting frequencies. Seek tuning will start at the time you release the kevs.

② Selects a preset channel

The keys can be used to switch preset chan-

Scroll by dragging the keys up or down to display the preset channel you want to select, and tap the channel.

- ☐ The lower keys and the upper keys appear only when the preset channel is selected.
- ③ Recalls equaliser curves

- ⇒ For details, refer to Using the equaliser on page 145.
- 4 Displays the "Function" menu
 - **⊃** For details, refer to *Using advanced func*tions on the next page.
- 5 Switches between the AV operation screen and the preset list display

You can switch the screen display according to your preference.

- ⇒ For details of the operation, refer to Switching between the AV operation screen and the list screen on page 69.
- 6 Selects an FM band

Tapping the key repeatedly switches between the following FM bands: FM1, FM2, or FM3.

☐ This function is convenient for preparing different preset lists for each band.

Storing and recalling broadcast frequencies

With a tap of any of the preset tuning keys ("P1" to "P6"), you can easily store up to six broadcast frequencies for later recall (also with the tap of a key).

1 Select a frequency that you want to store in memory.

2 Display the preset channel list.

- ⇒ For details, refer to Switches between the AV operation screen and the preset list display on the previous page.
- 3 Keep touching a preset tuning key [P1] to [P6].

Preset list display



Preset tuning keys

⇒ For details of the list operations, refer to Operating list screens (e.g. iPod list screen) on page 69.

The selected radio station has been stored in memory.

The next time you tap the same preset tuning key "P1" to "P6", the radio station frequencies are recalled from memory.

 Up to 18 FM stations, six for each of the three FM bands can be stored in memory.

Operating by hardware buttons

Pressing the TRK button

You can move preset channels up or down.

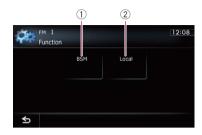
Pressing and holding the TRK button

You can perform seek tuning.

Using advanced functions

Touch con the "FM" screen.

The "Function" menu appears.



- ① Stores the strongest broadcast frequencies
- ② Tunes in strong signals
- ⇒ For details of each function, refer to sections below with the relative titles.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys "P1" to "P6" and, once stored there, you can tune into them with the touch of a key.

- Storing broadcast frequencies with BSM may replace broadcast frequencies you have already saved.
- 1 Touch on the "FM" screen.

The "Function" menu appears.

2 Touch [BSM].

3 Touch [Start] to begin a search.

"BSM" begins to flash. While "BSM" is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys "P1" to "P6" in order of their signal strength. When this is complete, "BSM" stops flashing.

• If you touch [**Stop**], the storage process is cancelled.

Tuning in strong signals

Local seek tuning allows you to tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch a on the "FM" screen.

The "Function" menu appears.

- 2 Touch [Local].
- 3 Touch [On] to turn local seek tuning on.
- If you touch [**Off**], local seek tuning is turned off.
- 4 Touch [◀Prev] or [Next▶] to set the sensitivity.

There are four levels of sensitivity for FM.

Level: 1 — 2 — 3 — 4

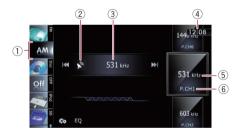
☐ The level "4" setting allows reception of only the strongest stations, while lower settings let you receive weaker stations. ■

You can listen to the radio using this navigation system. This section describes operations for radio (AM).

Starting procedure

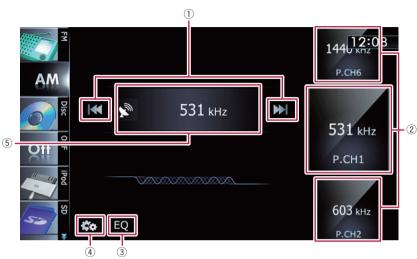
- 1 Display the AV operation screen.
 - → For details of the operations, refer to Displaying the AV operation screen on page 69.
- 2 Tap [AM] on the left edge of the screen to display the "AM" screen.
- 3 Use the touch panel keys on the screen to control the radio.
 - **⊃** For details, refer to *Using the touch panel keys* on the next page. ■

Reading the screen



- Source icon Shows which source has been selected.
- 2 Signal level indicator
- (3) Frequency indicator
- (4) Current time
- (5) Frequency indicator Shows the frequency of the preset item.
- ⑥ Preset number indicator Shows what preset item has been selected.

Using the touch panel keys



1 Performs manual tuning

To tune manually, touch [I◄◄] or [▶►I] briefly. The frequencies move up or down one step at a time.

Performs seek tuning

To perform seek tuning, touch and hold [◄◄] or [►►I] for about one second and then release. The tuner will scan frequencies until a broadcast strong enough for good reception is found.

- You can cancel seek tuning by touching either [◄◄] or [►►] briefly.
- ☐ If you keep holding [I◄◄] or [►►], you can skip broadcasting frequencies.
 Seek tuning will start at the time you release the kevs.

2 Selects a preset channel

The keys can be used to switch preset channels.

Scroll by dragging the keys up or down to display the preset channel you want to select, and tap the channel.

- The lower keys and the upper keys appear only when the preset channel is selected.
- ③ Recalls equaliser curves

- → For details, refer to Using the equaliser on page 145.
- (4) Displays the "Function" menu
 - **⊃** For details, refer to *Using advanced functions* on the next page.
- Switches between the AV operation screen and the preset list display

You can switch the screen display according to your preference.

For details of the operation, refer to Switching between the AV operation screen and the list screen on page 69.

Storing and recalling broadcast frequencies

With a tap of any of the preset tuning keys ("P1" to "P6"), you can easily store up to six broadcast frequencies for later recall (also with the tap of a key).

1 Select a frequency that you want to store in memory.

2 Display the preset channel list.

- For details, refer to Switches between the AV operation screen and the preset list display on the previous page.
- 3 Keep touching a preset tuning key [P1] to [P6].

Preset list display



Preset tuning keys

⇒ For details of the list operations, refer to Operating list screens (e.g. iPod list screen) on page 69.

The selected radio station has been stored in memory.

The next time you tap the same preset tuning key "P1" to "P6", the radio station frequencies are recalled from memory.

Operating by hardware buttons

Pressing the TRK button

You can move preset channels up or down.

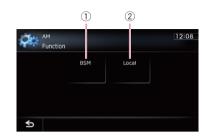
Pressing and holding the TRK button

You can perform seek tuning.

Using advanced functions

■ Touch continued on the "AM" screen.

The "Function" menu appears.



- ① Stores the strongest broadcast frequencies
- 2 Tunes in strong signals
- ◆ For details of each function, refer to sections below with the relative titles.

Storing the strongest broadcast frequencies

BSM (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys "P1" to "P6" and, once stored there, you can tune into them with the touch of a key.

- Storing broadcast frequencies with BSM may replace broadcast frequencies you have already saved.
- 1 Touch to on the "AM" screen.

The "Function" menu appears.

- 2 Touch [BSM].
- 3 Touch [Start] to begin a search.

"BSM" begins to flash. While "BSM" is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys "P1" to "P6" in order of their signal strength. When this is complete, "BSM" stops flashing.

• If you touch [**Stop**], the storage process is cancelled.

Tuning in strong signals

Local seek tuning allows you to tune in only those radio stations with sufficiently strong signals for good reception.

1 Touch aon the "AM" screen.

The "Function" menu appears.

- 2 Touch [Local].
- 3 Touch [On] to turn local seek tuning on.
- If you touch [**Off**], local seek tuning is turned off.
- 4 Touch [◀Prev] or [Next▶] to set the sensitivity.

There are two levels of sensitivity for AM.

Level: 1 — 2

☐ The level "2" setting allows reception of only the strongest stations, while lower settings let you receive weaker stations. ■

Playing audio CDs

You can play a normal music CD using the built-in drive of the navigation system. This section describes how.

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.

2 Insert the disc you want to play into disc-loading slot.

Playback starts from the first track of the CD.

- → For details, refer to *Inserting and ejecting a disc* on page 14.
- ☐ If the disc is already set, tap [**Disc**] on the left edge of the screen.
- → For details, refer to **Selecting a source** on page 69.

3 Use the touch panel keys on the screen to control the disc.

⊃ For details, refer to *Using the touch panel keys* on the next page. **■**

Reading the screen



1 Source icon

Shows which source has been selected.

② Playback condition indicator Indicates the current playback condition.

Scanning tracks of a CD

Indicator Meaning	
OFF :≡	Cancels the scan play.
on: <u>≡</u>	Plays the beginning of each track in the current repeat play range for about 10 seconds.

Playing tracks in random order

Indicator	Meaning
OFF <i>i</i> ⊘₹	Does not play tracks in random order.
ONXX	Plays all tracks in the current disc in random order.

Setting a repeat play range

Indicator	or Meaning	
0=	Repeats the current disc.	
Do	Repeats just the current track.	

③ Current track information

Artist name

Shows the artist name of the track currently playing (when available).

Shows the title of the album of the current track (when available).

• In Track title

Shows the title of the track currently playing (when available).

Play time

Shows the elapsed playing time within the current track.

- ☐ "-----" is displayed if there is no corresponding information.
- (4) Current time
- (5) Track information

Track number indicator

Shows the track number and the total number of tracks in the current repeat range.

Track title indicator

Playing audio CDs

Using the touch panel keys



(1) Scans tracks of a CD

Scan play is performed by touching only one key.

- ⇒ For details of the operation, refer to Scans tracks of a CD on the next page.
- 2 Plays tracks in random order

All of the tracks in the disc can be played at random by touching only one key.

For details of the operation, refer to Plays tracks in random order on the next page.

3 Sets a repeat play range

The repeat play range can be changed by touching only one key.

→ For details, refer to Changes the repeat range on the next page.

(4) Selects a track to play

Scrolling the keys up or down displays tracks, and tapping a track starts playback.

Tapping the lower key during random playback skips to the next track. Tapping the upper key jumps to the start of the current track.

(5) Recalls equaliser curves

→ For details, refer to Using the equaliser on page 145.

6 Displays the "Function" menu

→ For details, refer to Using advanced functions on the next page.

7 Playback and Pause

Touching [►/II] switches between playback and pause.

8 Selects a track from the list

Touching the key displays the list which lets you see the list of track titles on a disc. You can play a track on the list by tapping it.



- ☐ "-----" is displayed if there is no corresponding information.
- → For details, refer to Operating list screens (e.g. iPod list screen) on page 69.

9 Switches the media file type played

⇒ For details, refer to Switches the media file type played on page 85.

Playing audio CDs

Operating by hardware buttons

Pressing the TRK button

You can skip tracks forward or backward.

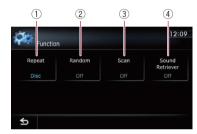
Pressing and holding the TRK button

You can perform fast reverse or fast forward.

Using advanced functions

● Touch con the "CD" screen.

The "Function" menu appears.



1 Changes the repeat range

Each touch of [**Repeat**] changes the setting as follows:

- **Disc**: Repeats the current disc.
- **Track**: Repeats just the current track.
- If you perform track search or fast forward or reverse, track repeat playback is automatically cancelled.
- 2 Plays tracks in random order

Each touch of [Random] turns it on or off.

If you turn the random play on when the repeat play range is set to "Track", the repeat play range changes to "Disc" automatically.

③ Scans tracks of a CD

Each touch of [Scan] turns it on or off. Scan play lets you hear the first 10 seconds of each track on the CD. When you find the track you want, touch [Scan] to turn scan play off.

After scanning is finished, normal playback of the tracks will begin again.

- If you turn the scan play on when the repeat play range is set to "Track", the repeat play range changes to "Disc" automatically.
- (4) Uses "Sound Retriever" function

"Sound Retriever" function automatically enhances compressed audio and restores rich sound.

Each touch of [**Sound Retriever**] changes the setting as follows:

- MODE 1: Activates "Sound Retriever" function
- MODE 2: Activates "Sound Retriever" function.
- Off: Deactivates "Sound Retriever" function
- "MODE 2" has a stronger effect than "MODE 1" and is more effective when playing back highly compressed audio data

You can play a disc that contains compressed audio files using the built-in drive of the navigation system. This section describes these operations.

In the following description, the MP3, WMA, AAC files are collectively referred to as "Compressed audio file".

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.

2 Insert the disc you want to play into disc-loading slot.

Playback starts from the first file of the ROM.

- ➡ For details, refer to Inserting and ejecting a disc on page 14.
- ☐ If the disc is already set, tap [**Disc**] on the left edge of the screen.
- For details, refer to **Selecting a source** on page 69.

3 Use the touch panel keys on the screen to control the disc.

For details concerning operations, refer to Using the touch panel keys on page 84. ■

Reading the screen



Source icon

Shows which source has been selected.

2 Playback condition indicator

Indicates the current playback condition.

Scanning folders and files

Indicator	Meaning
OFF∷	Cancels the scan play.
on:≣	Plays the first audio files of each folder for about 10 seconds when the repeat range is set to "Disc". Plays the beginning of each audio file in the current folder for about 10 seconds when the repeat range is set to "Folder".

Playing files in random order

Indicator	Meaning	
OFFXX	Does not play files in random order.	
ONXX	Plays all audio files in the cur- rent repeat play range in ran- dom order.	

Setting a repeat play range

Indicator	Meaning
0=	Repeats all compressed audio files.
Do	Repeats just the current file.
	Repeats the current folder.

3 Current file information

• T: Folder name

Shows the folder name currently playing.

• M: Artist name

Shows the artist name currently playing (when available).

Shows the title of the album of the current file (when available).

Track title

Shows the title of the track currently playing (when available).

☐ If the title of a track is not available, the file name appears.

Play time

Shows the elapsed playing time within the current file.

- ☐ "-----" is displayed if there is no corresponding information.
- (4) Current time
- (5) File information
 - · File number indicator
 - File name indicator
 - · File type indicator Shows the type of audio files.

Using the touch panel keys



Scans folders and files

Scan play is performed by touching only one key.

For details of the operation, refer to Scans folders and files on the next page.

2 Plays files in random order

The files in the current repeat play range can be played at random by touching only one key.

- If the disc contains a mixture of various media file types, all tracks or files within the current part ("CD" or "ROM") are played randomly.
- ⇒ For details, refer to Plays files in random order on the next page.

3 Sets a repeat play range

The repeat play range can be changed by touching only one key.

⇒ For details, refer to Changes the repeat range on the next page.

4 Selects a file to play

Scrolling the keys up or down displays files, and tapping a file starts playback.

Tapping the lower key during random playback skips to the next file. Tapping the upper key jumps to the start of the current file.

(5) Recalls equaliser curves

⇒ For details, refer to Using the equaliser on page 145.

6 Displays the "Function" menu

⇒ For details, refer to *Using advanced functions* on the next page.

7 Playback and Pause

Touching [►/II] switches between playback and pause.

® Selects a file from the list

Touching the key displays the list which lets you see the list of track titles or folder names on a disc.

☐ If the title of a track is not available, the file name appears.

Tapping a folder on the list shows its content. You can play a file on the list by tapping it.



- For details, refer to Operating list screens (e.g. iPod list screen) on page 69.
 Touching ☑ displays the content of the upper
- folder (parent folder). If the uppermost folder is listed, a cannot be used.
- (9) Switches the media file type played When playing a disc containing a mixture of various media file types, you can switch between media file types to play. Tap the key repeatedly to switch between the

CD (audio data (CD-DA)) — **ROM** (compressed audio file) — **DivX** (DivX video files) ■

Operating by hardware buttons

Pressing the TRK button

following media file types:

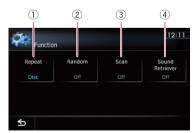
You can skip files forward or backward.

Pressing and holding the TRK button

You can perform fast reverse or fast forward.

Using advanced functions

• Touch on the "ROM" screen.
The "Function" menu appears.



① Changes the repeat range

Each touch of [Repeat] changes the setting as follows:

- Disc: Repeats all compressed audio files.
- Track: Repeats just the current file.

- Folder: Repeats the current folder.
- If you select another folder during repeat play, the repeat play range changes to "Disc".
- If you perform fast reverse or fast forward during "Track", the repeat play range changes to "Folder".
- When "Folder" is selected, it is not possible to playback a subfolder of that folder.
- When playing discs with compressed audio files and audio data (CD-DA), repeat play is performed within the currently playing data session even if "Disc" is selected.

2 Plays files in random order

Each touch of [Random] turns it on or off. When the random play is turned on, the files in the current repeat play range are randomly played.

If you turn the random play on when the repeat play range is set to "Track", the repeat play range changes to "Folder" automatically.

③ Scans folders and files

Scan play lets you hear the first 10 seconds of each file. Scan play is performed in the current repeat play range.

Each touch of [Scan] turns it on or off. When you find the file you want, touch [Scan] to turn the scan play off.

- After completion of file or folder scanning, normal playback of the files will begin again.
- If you turn the scan play on when the repeat play range is set to "Track", the repeat play range changes to "Folder" automatically.
- If you turn the scan play on while the repeat play range is set to "Disc", scan play is performed for only the first file of each folder.

(4) Uses "Sound Retriever" function

"Sound Retriever" function automatically enhances compressed audio and restores rich sound.

Each touch of [**Sound Retriever**] changes the setting as follows:

- MODE 1: Activates "Sound Retriever" function.
- MODE 2: Activates "Sound Retriever" function.
- Off: Deactivates "Sound Retriever" function.
- "MODE 2" has a stronger effect than "MODE 1" and is more effective when playing back highly compressed audio data.

You can play a DVD-Video using the built-in drive of the navigation system. This section describes operations for playing a DVD-Video.

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.

2 Insert the disc you want to play into disc-loading slot.

The source changes and then playback will start.

- ⇒ For details, refer to Inserting and ejecting a disc on page 14.
- ☐ If the disc is already set, tap [**Disc**] on the left edge of the screen.
- ⇒ For details, refer to Selecting a source on page 69.

3 Use the touch panel keys on the screen to control the disc.

For details, refer to Using the touch panel keys on the next page. ■

Audio channel indicator

Shows the current audio channel type, such as "**Mch**" (Multi-channel).

- (5) **Subtitle number indicator**Shows the subtitle number currently selected.
- Subtitle language indicator
 Shows the subtitle language currently selected.
- Viewing angle indicator

Shows what viewing angle has been selected.

- (8) Current time
- 9 Digital sound format indicator

Shows which digital sound format (surround sound format) has been selected.

10 Play time indicator

Shows the elapsed playing time within the current title.

(1) Source icon

Shows which source has been selected.

Reading the screen



- 1 Title number indicator
 - Shows the title number currently playing.
- ② Audio track indicator

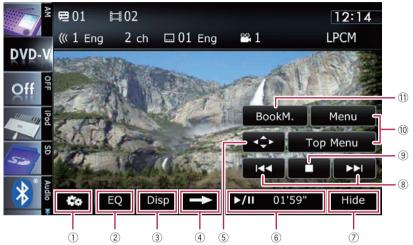
Shows the audio track number and audio language currently selected.

3 Chapter number indicator

Shows the chapter number currently playing.

Using the touch panel keys

Playback screen (page 1)



Playback screen (page 2)



■ With some discs, the icon S may be displayed, meaning that the operation is invalid.

1 Displays the "Function" menu

⇒ For details, refer to Using advanced functions on page 91.

② Recalls equaliser curves

⇒ For details, refer to Using the equaliser on page 145.

3 Switches the display

Touching [Disp] changes the indication on the information plate as follows:

Disc information display — Repeat range and L/R select display

Playback screen (page 3)



4 Switches to the next page of touch panel

5 Displays the DVD menu keypad

⇒ For details, refer to Using DVD menu by touch panel keys on page 90.

6 Playback and Pause

Touching [►/II] switches between playback and pause.

7 Hides the touch panel keys and information of the current video

Touching [Hide] shows only the current video.

If you want to display the touch panel keys and information of the current video again, touch anywhere on the LCD screen.

(8) Skips forward or backward

Touching [►►] skips to the start of the next chapter. Touching [◄◄] once skips to the start of the current chapter. Touching it twice quickly will skip to the previous chapter.

- 9 Stops playback
- 10 Displays the DVD menu

You can display the menu by touching [Menu] or [Top Menu] while a disc is playing. Touching either of these keys again lets you start playback from the location selected from the menu. For details, refer to the instructions provided with the disc.

(1) Resumes playback (Bookmark)

⇒ For details, refer to Resuming playback (Bookmark) on this page.

Frame-by-frame playback (or slow-motion) playback)

- **⊃** For details, refer to *Frame-by-frame play*back on page 91.
- ⇒ For details, refer to Slow motion playback on page 91.

(13) Fast reverse or forward

Touch and hold [◄◄] or [▶▶] to perform fast reverse or forward.

If you keep touching [◄◄] or [▶▶] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [►/II] or opposite key of [◄◄] or [►►] which you touched.

(4) Skips the title forward or backward

Touching [▶] skips to the start of the next title. Touching [◀] skips to the start of the previous title.

(5) Performs an operation (such as resuming) that is stored on the disc

When using a DVD that has a point recorded that indicates where to return to, the DVD returns to the specified point and begins playback from that point.

(6) Searches for a desired scene and starts playback from a specified time

- For details, refer to Searching for a specific scene and starting playback from a specified time on the next page.
- (f) Changes the audio track (Multi-audio)

Each touch of [Audio] switches between audio tracks recorded in the disc.

- DTS audio format cannot be output, so select an audio track other than DTS audio format.
- ☐ Display indications such as MPEG-A and Mch describe the audio track recorded on the DVD. This indication may not be the same as the actual sound currently output from the navigation sys-

(8) Changes the subtitle (Multi-subtitle) Fach touch of [S.Title] switches between the subtitle languages recorded on the disc.

- (9 Changes the viewing angle (Multi-angle) Each touch of [Angle] switches between viewing angles.
 - During playback of a scene shot from multiple angles, the angle icon as is displayed. Turn the angle icon display on or off using the "DVD/DivX® Setup" menu.
 - **⇒** For details, refer to *Setting the angle icon* display on page 97.

Resuming playback (Bookmark)

The Bookmark function lets you resume playback from a selected scene the next time the disc is loaded.

Touch [BookM.].



You can bookmark one point for each of up to five discs. If you try to memorise another point for the same disc, the older bookmark will be overwritten by the newer one.

☐ To clear the bookmark on a disc, touch and hold [BookM.].

(89

Searching for a specific scene and starting playback from a specified time

You can search for the scene you want by specifving a title or a chapter, and the time.

- Chapter search and time search are not available when disc playback has been stopped.
- Touch [Search] and then touch [Title] (title), [Chapter] (chapter), [Time] (time).
- Touch the keys to input the target number or time and then touch [Enter].



For titles, chapters

- To select 3, touch [3] and [Enter] in order.
- To select 10, touch [1] and [0] and [Enter] in order

For time (time search)

- To select 5 minutes 3 seconds, touch [5], [min], [3], [sec] and [Enter] in order.
- To select 71 minutes 00 seconds, touch [7], [1]. [min] and [Enter] in order.
- To select 100 minutes 05 seconds, touch [1], [0], [0], [5], [sec] and [Enter] in order.
- ☐ To cancel an input number, touch [Clear]. To cancel the input numbers, touch and hold [Clear].

Direct number search

You can use this function when you need to enter a numerical command during DVD playback.

- Touch [Search].
- Touch [10Key].

- Touch [0] to [9] to input the desired number.
- 4 While the input number is displayed, touch [Enter].

Operating the DVD menu

You can operate the DVD menu by touching the menu item on the screen directly.

- This function can be used when the key is displayed on the lower right corner of the LCD screen.
- ☐ This function may not work properly with some DVD disc content. In that case, use touch panel keys to operate the DVD menu.
- ☐ If you touch the screen while is displayed, the touch panel keys will not be displayed.
- Touch the screen to display the touch panel keys.
- Touch [Top Menu] or [Menu] to display touch panel keys to operate the DVD menu.
- Touch the desired menu item.
- If you touch ____, the touch panel keys for selecting the menu item are displayed.

Using DVD menu by touch panel keys

If items on the DVD menu appear, the touch panel keys may overlay them. If so, select an item using those touch panel keys.

Touch $[\blacktriangle]$, $[\blacktriangledown]$, $[\blacktriangleleft]$ or $[\blacktriangleright]$ to select the desired menu item.



If the touch panel keys for DVD menu selection disappear, touching anywhere on the screen, then touch . The touch panel keys are displayed again.

2 Touch [Enter].

Playback starts from the selected menu item. The way to display the menu differs depending on the disc.

- If you touch [Position], the display position of touch panel keys is changed each time you touch it.
- If you touch [**Hide**], the touch panel keys disappear and the con is displayed. You can select a menu item by touching it.

Frame-by-frame playback

This lets you move ahead one frame at a time during pause.

Touch [II▶] during pause.

Each time you touch [II►], you move ahead one frame.

- ☐ To return to normal playback, touch [►/II].
- ☐ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

1 Touch and hold [II▶] until III▶ is displayed during playback.

The icon **| i** is displayed, and forward slow motion playback begins.

□ To return to normal playback, touch [►/II].

2 Touch [◄II] or [II▶] to adjust playback speed during slow motion playback.

Each time you touch $[\blacktriangleleft II]$ or $[II\blacktriangleright]$ it changes the speed in four steps in the following order:

$1/16 \leftrightarrow 1/8 \leftrightarrow 1/4 \leftrightarrow 1/2$

- There is no sound during slow motion playback.
- With some discs, images may be unclear during slow motion playback.

■ Reversed slow motion playback is not possible. •

Operating by hardware buttons

Pressing the TRK button

You can skip chapters forward or backward.

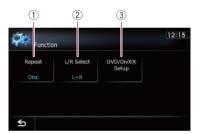
Pressing and holding the TRK button

You can perform fast reverse or fast forward.

Using advanced functions

● Touch
on the "DVD-V" screen.

The "Function" menu appears.



Changes the repeat range

Each touch of [**Repeat**] changes the setting as follows:

- Disc: Plays throughout the current disc.
- Chapter: Repeats just the current chapter.
- Title: Repeats just the current title.
- If you perform chapter (title) search, fast forward, fast reverse or slow motion playback, the repeat play range changes to "Disc".
- This function is not available when disc playback has been stopped.

② Selects audio output

When playing DVDs recorded with LPCM audio, you can switch the audio output. Touch [L/R Select] repeatedly until the desired audio output appears on the display.

Each touch of [L/R Select] changes the settings as follows:

- L+R: Left and right
- L: Left
- R: Right
- Mix: Mixing left and right
- ☐ This function is not available when disc playback has been stopped.
- 3 DVD setup adjustments
 - ⇒ For details, refer to Displaying DVD/ DivX® Setup menu on page 97.

You can play a DivX disc using the built-in drive of the navigation system. This section describes those operations.

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.

2 Insert the disc you want to play into disc-loading slot.

The source changes and then playback will start.

- ➡ For details, refer to Inserting and ejecting a disc on page 14.
- ☐ If the disc is already set, tap [**Disc**] on the left edge of the screen.
- ⇒ For details, refer to Selecting a source on page 69.

3 Use the touch panel keys on the screen to control the disc.

⇒ For details, refer to Using the touch panel keys on the next page.

4 Audio channel indicator

Shows the current audio channel type, such as "**Mch**" (Multi-channel).

5 Subtitle number indicator

Shows the subtitle number currently selected.

6 Repeat range indicator

Shows which repeat range has been selected.

- ⇒ For details, refer to Changes the repeat range on page 96.
- (7) Current time
- 8 Digital sound format indicator

Shows the digital sound format (surround sound format) currently selected.

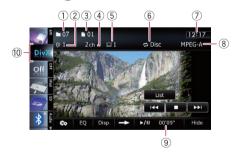
9 Play time indicator

Shows the elapsed playing time within the current file.

10 Source icon

Shows which source has been selected.

Reading the screen



1) Folder number indicator

Shows the folder number currently playing.

2 Audio track indicator

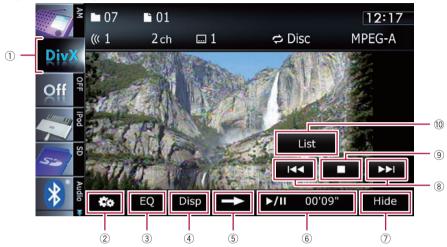
Shows the audio track number currently selected.

3 File number indicator

Shows the file number currently playing.

Using the touch panel keys

Playback screen (page 1)



Playback screen (page 2)



- With some discs, the icon \(\mathbb{O} \) may be displayed, meaning that the operation is invalid.
- iid.

 ① Switches the media file type played

When playing a disc containing a mixture of various media file types, you can switch between media file types to play.

Tap the key repeatedly to switch between the following media file types:

- **CD** (audio data (CD-DA)) **ROM** (compressed audio file) **DivX** (DivX video files)
- 2 Displays the "Function" menu
 - → For details, refer to Using advanced functions on page 96.
- ③ Recalls equaliser curves

- For details, refer to Using the equaliser on page 145.
- 4 Switches the information

Touching [**Disp**] changes the content of the information panel as follows:

Disc information display — Current folder name display — Current file name display

- Switches to the next page of touch panel keys
- 6 Playback and Pause

Touching $[\blacktriangleright/\blacksquare]$ switches between playback and pause.

Hides the touch panel keys and information of the current video

Touching [Hide] shows only the current video.

If you want to display the touch panel keys and information of the current video again, touch anywhere on the LCD screen.

8 Skips forward or backward

Touching [►►I] skips to the start of the next file. Touching [I◄◄] once skips to the start of the current file. Touching it twice quickly will skip to the previous file.

9 Stops playback

When [\blacksquare] is touched once to stop playback, playback can be resumed from the stopped position. When [\blacksquare] is touched two times to stop playback, playback returns to the beginning.

(10) Selects a file from the list

Touching the key displays the list which lets you find file names or folder names on a disc.

☐ A dash (–) is displayed if there is no corresponding information.

Tapping a folder on the list shows its content. You can play a file on the list by tapping it.



⊃ For details, refer to *Operating list screens* (e.g. iPod list screen) on page 69.

The contents of the folder in which the currently playing file is located are displayed. Touching classified displays the content of the upper folder (parent folder). If the uppermost folder is listed, cannot be used.

Frame-by-frame playback (or slow-motion playback)

- → For details, refer to Frame-by-frame play-back on this page.
- → For details, refer to Slow motion playback on this page.

12 Fast reverse or forward

Touch and hold $[\blacktriangleleft \blacktriangleleft]$ or $[\blacktriangleright \blacktriangleright]$ to perform fast reverse or forward.

If you keep touching [◄◄] or [▶▶] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [▶/II] or opposite key of [◄◄] or [▶▶] which you touched.

- (3) Changes the subtitle (Multi-subtitle) Each touch of [S.Title] switches between the subtitle languages recorded on the disc.
- (4) Changes audio tracks (Multi-audio) Each touch of [Audio] switches between audio tracks.
- (5) Searches for a desired scene and starts playback from a specified time
 - **⇒** For details, refer to *Starting playback* from a specified time on the next page.

Frame-by-frame playback

This lets you move ahead one frame at a time during pause.

Touch [II▶] during pause.

Each time you touch [**II►**], you move ahead one frame.

- □ To return to normal playback, touch [►/II].
- ☐ With some discs, images may be unclear during frame-by-frame playback.

Slow motion playback

This lets you slow down playback speed.

● Touch and hold [||▶] until ••• is displayed during playback.

The icon •• is displayed, and forward slow motion playback begins.

- □ To return to normal playback, touch [►►] or [◄◄], etc.
- There is no sound during slow motion playback.
- ☐ With some discs, images may be unclear during slow motion playback.
- Reversed slow motion playback is not possible.

Starting playback from a specified time

You can search for a desired scene by specifying the time.

- Time search are not possible when disc playback has been stopped.
- 1 Touch [Search].
- 2 Touch the keys to input the target number or time and then touch [Enter].



- To select 5 minutes 3 seconds, touch [5], [min], [3], [sec] and [Enter] in order.
- To select 71 minutes 00 seconds, touch [7],
 [1], [min] and [Enter] in order.
- To select 100 minutes 05 seconds, touch
 [1], [0], [0], [5], [sec] and [Enter] in order.
- To cancel an input number, touch [Clear].
 To cancel the input numbers, touch and hold [Clear].

Operating by hardware buttons

Pressing the TRK button

You can skip files forward or backward.

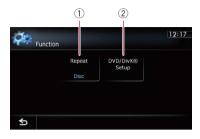
Pressing and holding the TRK button

You can perform fast reverse or fast forward. ■

Using advanced functions

Touch on the "DivX" screen.

The "Function" menu appears.



1 Changes the repeat range

Each touch of [Repeat] changes the setting as follows:

- **Disc**: Plays throughout the current disc.
- File: Repeats just the current file.
- Folder: Repeats just the current folder.
- If you select another folder during repeat play, the repeat play range changes to "Disc".
- If you perform fast reverse or fast forward during "File", the repeat play range changes to "Folder".
- When "Folder" is selected, it is not possible to playback a subfolder of that folder.
- When playing discs with compressed audio files and audio data (CD-DA), repeat play is performed within DivX videos even if "Disc" is selected.

2 **DVD** setup adjustments

⇒ For details, refer to Displaying DVD/ DivX® Setup menu on the next page.

This chapter describes how to configure the DVD-Video/DivX player.

Displaying DVD/DivX® Setup menu

- 1 Play the disc that contains DVD-Video or DivX
- 2 Display the AV operation screen.
 - **⇒** For details of the operations, refer to *Displaying the AV operation screen* on page 69.
- 3 Touch 🐯.

The "Function" menu appears.

4 Touch [DVD/DivX® Setup].
The "DVD/DivX® Setup" screen appears.

5 Touch the desired function.



Setting the top-priority languages

You can assign the top-priority language to the top-priority subtitle, audio and menu in initial playback. If the selected language is recorded on the disc, subtitles, audio and menu are displayed or output in that language.

- 1 Display the "DVD/DivX® Setup" screen.
 - → For details, refer to Displaying DVD/DivX® Setup menu on this page.

2 Touch [Subtitle Language], [Audio Language] or [Menu Language].

Each language menu is displayed and the currently set language is selected.

3 Touch the desired language.

When you select "**Others**", a language code input display is shown. Input the four-digit code of the desired language then touch [**Enter**].

- ⇒ For details, refer to Language code chart for DVDs on page 100.
- If the selected language is not recorded on the disc, the default language specified on the disc is output and displayed.
- You can also switch the subtitle and audio language by touching [S.Title] or [Audio] during playback.

Even if you touch [S.Title] or [Audio] to switch the subtitle or audio language, this setting will not change.

Setting the angle icon display

You can set the angle icon ### to display in scenes where the angle can be switched.

- 1 Display the "DVD/DivX® Setup" screen.
 - ⇒ For details, refer to Displaying DVD/DivX® Setup menu on this page.

2 Touch [Multi Angle].

Each time you touch the key changes the setting.

On (default):

- Displays the angle icon in scenes where the angle can be switched.
- Off:

Hides the angle icon.

Setting the aspect ratio

There are two kinds of displays. A wide screen display has a width-to-height ratio (TV aspect) of 16:9, while a regular display has a TV aspect of 4:3. If you use a regular rear display with a TV aspect of 4:3, you can set the aspect ratio suitable for your rear display. (We recommend use of this function only when you want to fit it to the rear display.)

□ When using a regular display, select either "Letter Box" or "Panscan". Selecting "16:9" may result in an unnatural image.

1 Display the "DVD/DivX® Setup" screen.

→ For details, refer to *Displaying* DVD/DivX® Setup *menu* on the previous page.

2 Touch [TV Aspect].

Each touch of [**TV Aspect**] changes the setting as follows:

- **16:9**: Wide screen image (16:9) is displayed as it is (initial setting).
- Letter Box: The image is in the shape of a letter box with black bands at the top and bottom of the screen.
- **Panscan**: The image is cut short at the right and left of the screen.
- □ When playing discs that do not have a panscan system, the disc is played back with "Letter Box" even if you select "Panscan" setting. Confirm whether the disc package bears the 16:9 LB mark.
- Some discs do not enable changing of the TV aspect. For details, refer to the disc's instructions.

Setting the parental lock

Some DVD-Video discs let you use parental lock to set restrictions so that children cannot watch violent or adult-oriented scenes. You can set the parental lock level in steps as desired.

When you set a parental lock level and then play a disc featuring parental lock, code number input indications may be displayed. In this case, playback will begin when the correct code number is input.

Setting the code number and level

When you first use this function, register your code number. If you do not register a code number, parental lock will not operate.

- 1 Display the "DVD/DivX® Setup" screen.
 - ⇒ For details, refer to Displaying DVD/DivX® Setup menu on the previous page.
- 2 Touch [Parental Level].
- 3 Touch [0] to [9] to input a four-digit code number.

4 While the input number is displayed, touch [Enter].

The code number is registered, and you can now set the level.

5 Touch any of [1] to [8] to select the desired level.

The parental lock level is set.

- **Level 8**: Playback of the entire disc is possible (initial setting).
- Level 7 to Level 2: Playback of discs for children and non-adult oriented discs is possible.
- **Level 1**: Only playback of discs for children is possible.
- If you want to change the parental level already set, enter the registered code number and then select the parental level.
- We recommend that you keep a record of your code number in case you forget it.
- The parental lock level is recorded on the disc. You can confirm it by looking at the disc package, the included literature or the disc itself. You cannot use parental lock with discs that do not feature a recorded parental lock level.
- With some discs, parental lock operates to skip certain scenes only, after which normal playback resumes. For details, refer to the disc's instructions.

☐ If you forget the registered code number, touch ☐ 10 times on the number input screen. The registered code number is cancelled, letting you register a new one.

Setting the auto play

When a DVD disc with DVD menu is inserted, this unit will cancel the DVD menu automatically and start playback from the first chapter of the first title.

- ☐ This function is available for DVD-Video.
- Some DVDs may not operate properly. If this function is not fully operable, turn this function off and start playback.
- 1 Display the "DVD/DivX® Setup" screen.
 - ➡ For details, refer to Displaying DVD/DivX® Setup menu on page 97.
- 2 Touch [Auto Play].

Each touch of [**Auto Play**] changes the settings as follows:

- Off (default):
 Deactivates the auto play function.
- On:
 Activates the auto play function.
- When "Auto Play" is set to "On", the repeat range is automatically set to "Disc".

Setting the subtitle file for DivX

You can select whether to display DivX external subtitles or not.

- If no DivX external subtitle files exist, the original DivX subtitles are displayed even when "Custom" is selected.
- 1 Display the "DVD/DivX® Setup" screen.
 - ⇒ For details, refer to Displaying DVD/DivX® Setup menu on page 97.
- 2 Touch [Subtitle File].

Touching [**Subtitle File**] switches this setting between "**Original**" and "**Custom**".

- Up to 42 characters can be displayed on one line. If more than 42 characters are set, the line breaks and the characters are displayed on the next line.
- Up to 126 characters can be displayed on one screen. If more than 126 characters are set, the excess characters will not be displayed.
- The DivX subtitles will be displayed even when the subtitle file setting is on if no corresponding subtitle files exist.
- ☐ Up to three subtitle lines can be displayed at once. ■

Language code chart for DVDs

Two-letter		Two-letter		Two-letter	
code, input	Language	code, input	Language	code, input	Language
code		code	99-	code	99-
aa, 0101	Afar	ia, 0901	Interlingua	rn, 1814	Rundi
ab, 0102	Abkhazian	ie, 0905	Interlingue	ro, 1815	Romanian
af, 0106	Afrikaans	ik, 0911	Inupiaq	ru, 1821	Russian
am, 0113	Amharic	in, 0914	Indonesian	rw, 1823	Kinyarwanda
ar, 0118	Arabic	is, 0919	Icelandic	sa, 1901	Sanskrit
as, 0119	Assamese	it, 0920	Italian	sd, 1904	Sindhi
ay, 0125	Aymara	ja, 1001	Japanese	sg, 1907	Sango
az, 0126	Azerbaijani	ji, 1009	Yiddish	sh, 1908	Serbo-Croatian
ba, 0201	Bashkir	jw, 1023	Javanese	si, 1909	Sinhala
be, 0205	Belarusian	ka, 1101	Georgian	sk, 1911	Slovak
bg, 0207	Bulgarian	kk, 1111	Kazakh	sl, 1912	Slovenian
bh, 0208	Bihari	kl, 1112	Kalaallisut	sm, 1913	Samoan
bi, 0209	Bislama	km, 1113	Central Khmer	sn, 1914	Shona
bn, 0214	Bengali	kn, 1114	Kannada	so, 1915	Somali
bo, 0215	Tibetan	ko, 1115	Korean	sq, 1917	Albanian
br, 0218	Breton	ks, 1119	Kashmiri	sr, 1918	Serbian
ca, 0301	Catalan	ku, 1121	Kurdish	ss, 1919	Swati
co, 0315	Corsican	ky, 1125	Kirghiz; Kyrgyz	st, 1920	Sotho, Southern
cs, 0319	Czech	la, 1201	Latin	su, 1921	Sundanese
су, 0325	Welsh	In, 1214	Lingala	sv, 1922	Swedish
da, 0401	Danish	lo, 1215	Lao	sw, 1923	Swahili
de, 0405	German	lt, 1220	Lithuanian	ta, 2001	Tamil
dz, 0426	Dzongkha	lv, 1222	Latvian	te, 2005	Telugu
ee, 0505	Ewe	mg, 1307	Malagasy	tg, 2007	Tajik
el, 0512	Greek	mi, 1309	Maori	th, 2008	Thai
en, 0514	English	mk, 1311	Macedonian	ti, 2009	Tigrinya
eo, 0515	Esperanto	ml, 1312	Malayalam	tk, 2011	Turkmen
es, 0519	Spanish	mn, 1314	Mongolian	tl, 2012	Tagalog
et, 0520	Estonian	mo, 1315	Moldavian	tn, 2014	Tswana
eu, 0521	Basque	mr, 1318	Marathi	to, 2015	Tonga
fa, 0601	Persian	ms, 1319	Malay	tr, 2018	Turkish
fi, 0609	Finnish	mt, 1320	Maltese	ts, 2019	Tsonga
fj, 0610	Fijian	my, 1325	Burmese	tt, 2020	Tatar
fo, 0615	Faroese	na, 1401	Nauru	tw, 2023	Twi
fr, 0618	French	ne, 1405	Nepali	uk, 2111	Ukrainian
fy, 0625	Western Frisian	nl, 1412	Dutch; Flemish	ur, 2118	Urdu
ga, 0701	Irish	no, 1415	Norwegian	uz, 2126	Uzbek
gd, 0704	Gaelic	oc, 1503	Occitan	vi, 2209	Vietnamese
gl, 0712	Galician	om, 1513	Oromo	vo, 2215	Volapuk
gn, 0714	Guarani	or, 1518	Oriya	wo, 2315	Wolof
gu, 0721	Gujarati	pa, 1601	Panjabi; Punjabi	xh, 2408	Xhosa
ha, 0801	Hausa	pl, 1612	Polish	yo, 2515	Yoruba
hi, 0809	Hindi	ps, 1619	Pushto; Pashto	zh, 2608	Chinese
hr, 0818	Croatian	pt, 1620	Portuguese	zu, 2621	Zulu
hu, 0821	Hungarian	qu, 1721	Quechua		
hy, 0825	Armenian	rm, 1813	Romansh		

You can play the compressed audio files stored in the external storage device (USB, SD).

□ In the following description, the SD memory card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory device only, it is referred to as the "USB storage device".

Starting procedure

- 1 Display the AV operation screen.
 - ⇒ For details of the operations, refer to Displaying the AV operation screen on page 69.
- 2 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.
 - ➡ For details, refer to Plugging in a USB storage device on page 18.
 - ⇒ For details, refer to Inserting and ejecting an SD memory card on page 15.
 - Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02.
- 3 Tap [USB] or [SD] on the left edge of the screen to display the "USB" or "SD" screen.
- 4 Use the touch panel keys on the screen to control the external storage device (USB, SD).
 - For details, refer to Using the touch panel keys (Music) on page 103. ■

Reading the screen



- ☐ This unit may not achieve optimum performance with some external storage devices.
- You can playback the files on a USB storage device compliant with Mass Storage Class. For details about the USB Class, refer to the manual supplied with the USB storage device.
- ① **Source icon**Shows which source has been selected.
- ② Playback condition indicator Indicates the current playback condition.

Scanning folders and files

Indicator	Meaning
OFF :≡	Cancels the scan play.
on:≡	Plays the first audio files of each folder for about 10 seconds when the repeat range is set to "Media". Plays the beginning of each audio file in the current folder for about 10 seconds when the repeat range is set to "Folder".

Playing files in random order

Indicator	Meaning
OFFXX	Does not play files in random order.
ONXX	Plays all audio files in the cur- rent repeat play range in ran- dom order.

Setting a repeat play range

3		
Indicator	Meaning	
□ 0	Repeats all compressed audio files in the selected external storage device (USB, SD).	
Do.	Repeats just the current file.	
	Repeats the current folder.	

3 Current file information

• T: Folder name

Shows the folder name currently playing.

• M: Artist name

Shows the artist name currently playing (when available).

Shows the title of the album of the current file (when available).

Track title

Shows the title of the track currently playing (when available).

☐ If the title of a track is not available, the file name appears.

Play time

Shows the elapsed playing time within the current file.

☐ "-----" is displayed if there is no corresponding information.

(4) Current time

(5) File information

- · File number indicator
- File name indicator
- · File type indicator

Shows the type of audio files.

Using the touch panel keys (Music)



(1) Scans folders and files

Scan play is performed by touching only one key.

For details of the operation, refer to Scans folders and files on the next page.

2 Plays files in random order

The files in the current repeat play range can be played at random by touching only one key.

For details of the operation, refer to Plays files in random order on the next page.

3 Sets a repeat play range

The repeat play range can be changed by touching only one key.

→ For details, refer to Changes the repeat range on the next page.

4 Selects a file to play

Scrolling the keys up or down displays files, and tapping a file starts playback.

Tapping the lower key during random playback skips to the next file. Tapping the upper key jumps to the start of the current file.

(5) Recalls equaliser curves

→ For details, refer to Using the equaliser on page 145.

6 Displays the "Function" menu

→ For details, refer to Using advanced functions on the next page.

7 Playback and Pause

Touching [▶/II] switches between playback and pause.

(8) Selects a file from the list

Touching the key displays the list which lets you find track titles or folder names on an external storage device (USB, SD).

Tapping a folder on the list shows its content. You can play a file on the list by tapping it.



→ For details, refer to Operating list screens (e.g. iPod list screen) on page 69.

Touching I displays the content of the upper folder (parent folder). If the uppermost folder is listed, I cannot be used.

9 Switches the operation screen

Tapping this key switches between the screen to operate music files and the screen to operate video files. This touch panel key is available only when there are both audio and video files in the external storage device (USB, SD),

Operating by hardware buttons

Pressing the TRK button

You can skip files forward or backward.

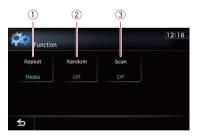
Pressing and holding the TRK button

You can perform fast reverse or fast forward. •

Using advanced functions

● Touch con the "USB" or "SD" screen.

The "Function" menu appears.



① Changes the repeat range

Each touch of [**Repeat**] changes the setting as follows:

- Media: Repeats all compressed audio files in the selected external storage device (USB, SD).
- Track: Repeats just the current file.
- Folder: Repeats the current folder.
- If you skip the file forward or backward when the repeat play range in "Track", the repeat play range changes to "Folder".
- 2 Plays files in random order

Random play lets you playback files in random order within the current repeat range. Each touch of [Random] turns it on or off.

If you turn the random play on when the repeat play range is set to "Track", the repeat play range changes to "Folder" automatically.

③ Scans folders and files

Scan play lets you hear the first 10 seconds of each file. Scan play is performed in the current repeat play range.

Each touch of [Scan] turns it on or off. When you find the file you want, touch [Scan] to turn the scan play off.

- □ After all files or folders scanning are finished, normal playback will begin again.
- If you turn the scan play on when the repeat play range is set to "Track", the repeat play range changes to "Folder" automatically.

Playing video files (from USB or SD)

You can play the video files stored in the external storage device (USB, SD).

☐ In the following description, the SD memory card and USB memory device are collectively referred to as the "external storage device (USB, SD)". If it indicates the USB memory device only, it is referred to as the "USB storage device".

Starting procedure

- Display the AV operation screen.
 - ⇒ For details of the operations, refer to Displaying the AV operation screen on page 69.
- 2 Insert the SD memory card into the SD card slot or plug the USB storage device into the USB connector.
 - ⇒ For details, refer to Plugging in a USB storage device on page 18.
 - **⇒** For details, refer to *Inserting and ejecting an* SD memory card on page 15.
 - Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02.
- 3 Tap [USB] or [SD] on the left edge of the screen to display the "USB" or "SD" screen.
- Touch the screen to display the touch panel keys.
- Use the touch panel keys on the screen to control the external storage device (USB, SD).
 - ⇒ For details, refer to Using the touch panel keys (Video) on the next page.

Reading the screen

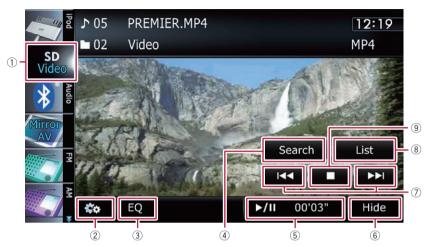


- This unit may not achieve optimum performance with some external storage devices.
- ☐ You can playback the files on a USB storage device compliant with Mass Storage Class. For details about the USB Class. refer to the manual supplied with the USB storage device.
- 1 Folder number indicator
- ② File number indicator
- 3 Current folder name indicator Shows the folder name currently playing.
- (4) File name indicator Shows the file name currently playing.
- (5) Current time
- 6 File type indicator Shows the type of audio file currently playing.
- 7 Play time indicator Shows the elapsed playing time within the current file.
- Source icon Shows which source has been selected.



Playing video files (from USB or SD)

Using the touch panel keys (Video)



1 Switches the operation screen

Tapping this key switches between the screen to operate music files and the screen to operate video files. This touch panel key is available only when there are both audio and video files in the external storage device (USB, SD).

② Displays the "Function" menu

→ For details, refer to Using advanced functions on the next page.

③ Recalls equaliser curves

→ For details, refer to Using the equaliser on page 145.

4 Searches for a desired scene and starts playback from a specified time

⇒ For details, refer to Searching for a specific scene and starting playback from a specified time on the next page.

5 Playback and Pause

Touching [►/II] switches between playback and pause.

6 Hides the touch panel keys and information of the current video

Touching [Hide] shows only the current video.

If you want to display the touch panel keys and information of the current video again, touch anywhere on the LCD screen.

(7) Skips forward or backward

Touching [►►I] skips to the start of the next file. Touching [I◄◄] once skips to the start of the current file. Touching it twice quickly will skip to the previous file.

Fast reverse or forward

Touch and hold [$\bowtie \blacktriangleleft$] or [$\triangleright \triangleright \bowtie$] to fast reverse or fast forward.

☐ There is no sound on fast reverse or forward.

(8) Selects a file from the list

You can select and play the title you want from the list.



⊃ For details, refer to *Operating list screens* (e.g. iPod list screen) on page 69.

The contents of the folder in which the currently playing file is located are displayed. Touching classified displays the content of the upper folder (parent folder). If the uppermost folder is listed, classified cannot be used.

Playing video files (from USB or SD)

9 Stops playback

Searching for a specific scene and starting playback from a specified time

You can search for a desired scene by specifying the time.

- 1 Touch [Search].
- 2 Touch the keys to input the target number or time and then touch [Enter].



- To select 5 minutes 3 seconds, touch [5], [min], [3], [sec] and [Enter] in order.
- To select 71 minutes 00 seconds, touch [7], [1], [min] and [Enter] in order.
- To select 100 minutes 05 seconds, touch
 [1], [0], [0], [5], [sec] and [Enter] in order.
- □ To cancel an input number, touch [Clear]. To cancel the input numbers, touch and hold [Clear]. ■

Operating by hardware buttons

Pressing the TRK button

You can skip files forward or backward.

Pressing and holding the TRK button

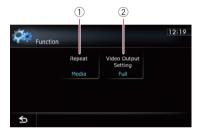
You can perform fast reverse or fast forward. ■

Using advanced functions

- 1 Tap [USB] or [SD] on the left edge of the screen to display the "USB" or "SD" screen.
 - ⇒ For details of the operations, refer to Displaying the AV operation screen on page 69.
- 2 Touch the screen to display the touch panel keys.
- 3 Touch 🐯.

The "Function" menu appears.

If the touch panel keys are not shown, touch anywhere on the screen to display them.



Changes the repeat range

Each touch of [**Repeat**] changes the setting as follows:

- Media: Repeats all video files in the selected external storage device (USB, SD).
- **File**: Repeats just the current file.
- Folder: Repeats the current folder.
- If you skip the file forward or backward when the repeat play range in "File", the repeat play range changes to "Folder".

2 Changes the screen size of video

If a video file is played, you can select the display mode between normal and full screen.

Each touch of [Video Output Setting] changes the setting as follows:

- **Normal**: Enlarges the display size while maintaining the aspect ratio.
- Full: Displays the image full-screen although the aspect ratio may be changed.

Using an iPod (iPod)

Using the USB interface cable for iPod enables you to connect your iPod to the navigation system.

☐ A USB interface cable for iPod (CD-IU51V) (sold separately) is required for connection.

Starting procedure

1 Display the AV operation screen.

⊃ For details of the operations, refer to *Displaying the AV operation screen* on page 69.

2 Connect your iPod.

The source changes and then playback will start.

- **⊃** For details, refer to *Connecting your iPod* on page 19.
- ☐ If the iPod is already connected, tap [iPod] on the left edge of the screen.
 - For details, refer to Selecting a source on page 69.
- If no video is output when iPod is selected as AV source, check the setting in "AV1 Input" on the "AV System Settings" menu.
 - ⇒ For details, refer to Setting video input 1 (AV1) on page 141.

3 Use the touch panel keys on the screen to control your iPod.

⇒ For details of the operation, refer to Using the touch panel keys on page 110.

Reading the screen

Music



Video



1 Playback condition indicator

Indicates the current playback condition.

Setting the shuffle play

Indicator	Meaning	
OFF⊅\$	Cancels the shuffle play.	
♪≈	Plays back songs or videos in random order within the selected list.	
⊙ ∞	Selects an album randomly, and then plays back all songs in that album in order. The actions while this indicator is displayed on the video operation screen vary depending on the connected iPod.	

Setting a repeat play range

Indicator	Meaning		
2	Repeats all songs or videos in the selected list.		
	Repeats just the current song or video.		

2 Current song (episode) information

Artist name (podcast title)

Shows the artist name currently playing. When a podcast is played, the podcast title is displayed (when available).

- Album title (release date)
 Shows the title of the album for the song. When a podcast is played, the release date is displayed (when available).
- M: Song title (episode)

Shows the title of the current song. When a podcast is played, the episode is displayed (when available).

• Chapter number

Shows the current chapter number and total number of chapters when the file with chapters played (when available).

· Play time

Shows the elapsed playing time within the current song (episode).

- "-----" is displayed if there is no corresponding information.
- 3 Current time

4 Song (episode) information

Song number indicator

Shows the number of the song and the total number of songs in the selected list.

· Song title (episode) indicator

Album artwork

Album art of the current song is displayed if it is available.

(5) Genre indicator

Shows the genre of the current song.

6 Source icon

Shows which source has been selected.

(7) Current video information

• E: Chapter number

Shows the current chapter number when the video with chapters played (when available).

Artist name (podcast title)

Shows the artist name currently playing. When a podcast is played, the podcast title is displayed (when available).

File number indicator

Shows the number of the file currently playing (when available).

· File name indicator

Shows the file name currently playing (when available).

Play time indicator

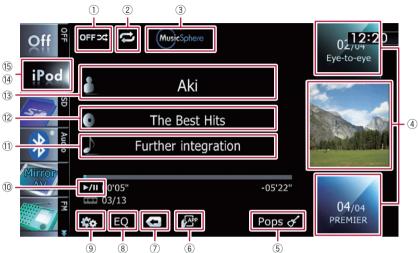
Shows the elapsed playing time within the current file.

☐ "-----" is displayed if there is no corresponding information.

If characters recorded on the iPod are not compatible with this navigation system, they may turn into garbled characters.

Using the touch panel keys





Video



① Sets the shuffle play for music

The shuffle play setting can be changed by touching only one key.

- → For details, refer to Sets the shuffle play for music on page 115.
- 2 Sets a repeat play range

The repeat play range can be changed by touching only one key.

- **⇒** For details, refer to **Sets repeat play** on page 114.
- 3 Displays the "MusicSphere" screen

Touching the key displays the **MusicSphere** screen, and a playlist created with the PC application (**MusicSphere**) can be played.

→ For details, refer to Playing Music-Sphere on page 114.

4 Selects a song to play

Scrolling the keys up or down displays songs, and tapping a song starts playback.

Tapping the lower key during shuffle playback skips to the next song. Tapping the upper key once skip to the start of the current song. Tapping it again will skip to the previous song. When the song with chapters played, chapter can be skipped back and forward.

- 5 Displays the genre list
- Switches the control mode of iPod functions

Touching the key lets you control the functions of an iPod connected to the navigation system from the iPod.

- ⇒ For details, refer to Operating the functions from your iPod on page 113.
- Displays the top category menu

 Touching the key displays the top category:

Touching the key displays the top category for song playback.

Displays the previously selected list

If you select the song from the list to play after touching **a**, touching the key displays the previous list.

- ® Recalls equaliser curves
 - → For details, refer to Using the equaliser on page 145.
- 9 Displays the "Function" menu
 - → For details, refer to Using advanced functions on page 114.
- 10 Playback and Pause

Touching $[\blacktriangleright/II]$ switches between playback and pause.

- 1 Displays the song list
- 12 Displays the album list
- (3) Displays the artist list
- (4) Switches the operation screen

Tapping this key displays the touch panel key ([Video] or [Music]) to switch between the screen to operate video files and the screen to operate music files.

- ⇒ For details of the operation, refer to Starting the video playback on the next page.
- This touch panel key is available only when there are both audio and video file in your iPod.
- If iPod fifth generation is connected, the following settings are automatically changed when the operation screen is switched to the one to operate video files.
 - "Repeat" is set to "All".
 - "Shuffle" is set to "Off".
- □ Touching [Video] or [Music] on the list screens enables you to perform the equivalent operation.



(5) Displays the top category menu

Touching the key displays the top category menu for song or video playback.

(§) Skips back or forward to another video Touching [►►I] skips to the start of the next video. Touching [I◄◄] once skips to the start of the current video. Touching again will skip to the previous video. When the video with chapters played, chapter can be skipped back and forward.

Fast reverse or forward

Touch and hold $[I \triangleleft \blacktriangleleft]$ or $[\blacktriangleright \blacktriangleright I]$ to fast reverse or fast forward.

If you keep touching [I◄] or [►►] for five seconds, fast reverse/fast forward continues even if you release either of these keys. To resume playback at a desired point, touch [►/III], [I◄] or [►►].

 Hides the touch panel keys and information of the current video

Touching [Hide] shows only the current video.

- If you want to display the touch panel keys and information of the current video again, touch anywhere on the LCD screen.
- ® Displays the top category menu for video Touching the key displays the top category for video playback.

Displays the previously selected list
If you select the video from the list to play
after touching , touching the key displays
the previous list.

Operating by hardware buttons

Pressing the TRK button

You can skip songs, videos or podcasts forward or backward.

When the song, video or podcast with chapter played, you can skip chapter forward or backward.

Pressing and holding the TRK button

You can perform fast reverse or fast forward.

Starting the video playback

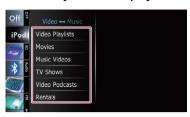
This navigation system can play video if an iPod with video capabilities is connected.

- 1 Touch [iPod] on the left edge of the screen to display the touch panel key to switch to a video source.
- 2 Tap [Music].



A list of videos by category appears.

3 Tap one of the categories in that contains the video you want to play.



- 4 Tap your desired item on the list to narrow down them until the video list appears.
 - → For details, refer to Narrowing down a song or video with the list on this page.
- 5 On the video list, tap the video you want to play.

Video playback will start.

- 6 Touch the screen to display the touch panel keys.
 - For details of the operation, refer to Using the touch panel keys on page 110.

Narrowing down a song or video with the list

Tapping an item on list allows you to search for a song or video and play it in your iPod.

- 1 Display a list screen.
 - **⊃** For details, refer to **Displays the genre list** on the previous page.
 - ⇒ For details, refer to *Displays the song list* on the previous page.
 - **⊃** For details, refer to **Displays the album list** on the previous page.
 - **⇒** For details, refer to **Displays the artist list** on the previous page.
- If you touch **a**, the top category menu screen is displayed. Tap the category of your preference.



2 Scroll by dragging tabs up or down to display the character that you want to refine.



Character tabs

3 Tap the tab to select the character and display the page which includes applicable options.

- An article listed below and space at the beginning of the artist name will be ignored and the next character will be taken into account for searching.
 - "A" or "a"
 - "AN", "An", or "an"
 - "THE", "The", or "the"

4 Scroll the list by dragging items up or down to display the item you want to select.

Refine the item until the song title (episode) is displayed on the list.

- □ Tapping [AII] on the list includes all options in the current list. For example, if you tap [AII] after tapping [Artists], you can proceed to the next screen with all artists in the list selected.
- After you select artists, albums, genres, podcasts, or composers, go on to touch and hold one of the list to start playing the first song in the selected list and display the next hierarchy.

5 On the song (episode) or video list, tap the song (episode) or video you want to play.

☐ After you select the song (episode) or video using this function, touching ☐ displays the list previously selected. ☐

Operating the functions from your iPod

You can control the navigation system via the connected iPod. When you change the screen of the navigation system to "**Application**Mode", sound is output from the speakers of

your vehicle.

In the "Application Mode" screen, the follow

In the "Application Mode" screen, the following operations are available from this navigation system.

- Playback and Pause
- · Fast reverse or forward
- Skip forward or backward
- Adjusting the volume
- Touch to switch the mode.

The "Application Mode" screen appears.

⇒ For details, refer to Switches the control mode of iPod functions on page 111.



- 1 Switches to the normal mode.
- ② Operates the iPod. The operations activated by touching vary depending on the connected iPod.

Playing MusicSphere

You can play playlists created with the PC application (**MusicSphere**) using an exciting graphic interface.

PC application (MusicSphere) will be available on our website.

Starting procedure

- 1 Display the music operation screen of the iPod.
 - → For details of the operation, refer to Starting procedure on page 108.
- 2 Touch
 - For details of the operations, refer to Displays the "MusicSphere" screen on page 110.

Reading the screen



- ① Category name and total number of songs Shows the category name and the total number of playable songs in the playlist currently selected.
- ② Song title indicator Shows six songs including the first song played after selecting the playlist.
- 3 Playlist name indicator Shows the name of the playlist currently selected.
- (4) Current time
- Shows the category name in the playlist.

Using the touch panel keys



- 1 Switches to the AV operation screen
- ② Plays the playlist

Tapping a key moves the playlist to the centre of the screen, and tapping the centre key starts playback.

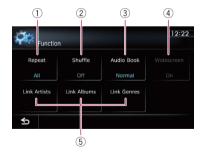
☐ To change the playlist to be displayed, rotate the sphere by dragging the keys up, down, left, or right.

Using advanced functions

● Touch
on the "iPod" screen.

The "Function" menu appears.

- This menu is not available when you change the screen of the navigation system to "Application Mode".
- → For details, refer to Operating the functions from your iPod on the previous page.



1) Sets repeat play

There are two repeat play types for playback.

Each touch of [**Repeat**] changes the setting as follows:

- All: Repeats all songs or videos in the selected list.
- One: Repeats just the current song or video.

② Sets the shuffle play for music

This function shuffles songs or albums and plays them in random order.
Each touch of [**Shuffle**] changes the setting as follows:

- · Off: Does not shuffle.
- **Songs**: Plays back songs or videos in random order within the selected list.
- Albums: Selects an album randomly, and then plays back all songs in that album in order.

3 Sets the audiobook play speed

While listening to an audiobook on iPod, playback speed can be changed. Each touch of [Audio Book] changes the setting as follows:

- Normal: Playback in normal speed
- Faster: Playback faster than normal speed
- Slower: Playback slower than normal speed

4 Plays video in wide screen mode

If the video is compatible with wide screen format, set "Widescreen" to "On" in order to view the video image in the wide screen. Each touch of [Widescreen] changes the setting as follows:

- On: Outputs the wide-screen video from an iPod.
- Off: Outputs the normal-sized video from an iPod.
- Display size is changed after you change "Widescreen" setting and select the video to play.
- ☐ This setting is available only during the video operation.

Plays songs related to the currently playing song

You can play songs related to the currently playing song, using of the following lists.

 Link Artists: Songs related to the currently playing artist will be played in the album order.

- Link Albums: Songs related to the currently playing album will be played.
- Link Genres: Songs related to the currently playing genre will be played in the artist order.

You can control the Bluetooth audio player.

- Before using the Bluetooth audio player, you need to register and connect the device to this navigation system.
 - **⊃** For details, refer to *Registering your Bluetooth devices* on page 54.
- Operations may vary depending on the kind of a Bluetooth audio player.
- Depending on the Bluetooth audio player connected to this navigation system, the available operations with this navigation system are limited to the following two levels:
 - A2DP profile (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
 - A2DP profile and AVRCP profile (Audio/ Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- ☐ Since there are a number of Bluetooth audio players available on the market, operations with your Bluetooth audio player using this navigation system vary greatly in range. Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this navigation system.
- While you are listening to songs on your Bluetooth audio player, please refrain from operating your mobile phone as much as possible. If you try operating on your mobile phone, the signal from your mobile phone may cause a noise on the song playback.
- Even if you switch to another source while listening to a song on your Bluetooth audio player, the playback of song continues to elanse.
- Depending on the Bluetooth audio player you connected to this navigation system, operations on this navigation system to control the player may differ from those explained in this manual.
- When you are talking on a mobile phone connected to this unit via Bluetooth wireless technology, song playback from your

Bluetooth audio player connected to this unit may be paused.

Starting procedure

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.
- 2 Tap [Audio] on the left edge of the screen to display the "Audio" screen.
- 3 Use the touch panel keys on the screen to control the Bluetooth audio player.
 - For details, refer to Using the touch panel keys on page 118. ■

Reading the screen



Playback condition indicator

Indicates the current playback condition if the connected Bluetooth audio player features AVRCP 1.3.

Playing files in random order

Indicator	Meaning	
OFFXX	Does not play files in random order.	
ONXX	Plays all audio files in the cur- rent repeat play range in ran- dom order.	

Setting a repeat play range

Indicator	Meaning	
OFF	Does not repeat.	
20	Repeats just the current file.	
ALL 🗢	Repeats all audio files in the Bluetooth audio player.	

2 Current file information

If the connected Bluetooth audio player features AVRCP 1.3, the following file information will be displayed.

• M: Artist name

Shows the artist name currently playing (when available).

Shows the title of the album of the current file (when available).

• Track title

Shows the title of the track currently playing (when available).

Play time indicator

Shows the elapsed playing time within the current file.

· File number indicator

Shows the file number currently playing (when available).

- In the following cases, file information will only be displayed after a file starts or resumes playing:
 - You connect the Bluetooth audio player compatible with AVRCP1.3, and operate the player to start playing.
 - You select another file when playback is paused.
- (3) Current time
- (4) Source icon

Shows which source has been selected.

- (5) Device name indicator
- 6 Connection status indicator

Shows whether the device featuring Bluetooth technology is connected or not.

Using the touch panel keys



1) Plays files in random order

All of the files within the repeat play range can be played at random by touching only one key

- This function is available only when the connected Bluetooth audio player features AVRCP 1.3.
- ⇒ For details, refer to Plays files in random order on the next page.
- 2 Sets a repeat play range

The repeat play range can be changed by touching only one key.

- This function is available only when the connected Bluetooth audio player features AVRCP 1.3.
- → For details, refer to Changes the repeat range on the next page.
- ③ Playback and Pause

Touching [▶] or [II] switches between playback and pause.

4 Connects the Bluetooth audio player

Touching [Connect] displays the connection standby screen and the navigation system waits for the Bluetooth wireless connection request.

5 Recalls equaliser curves

- → For details, refer to Using the equaliser on page 145.
- 6 Displays the "Function" menu
 - For details, refer to Using advanced functions on the next page. ■

Operating by hardware buttons

Pressing the TRK button

You can skip files forward or backward.

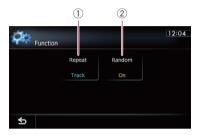
Pressing and holding the TRK button

You can perform fast reverse or fast forward.

Using advanced functions

- This menu is available only when the connected Bluetooth audio player features AVRCP 1.3.
- Touch con the "Audio" screen.

The "Function" menu appears.



① Changes the repeat range

Each touch of [Repeat] changes the setting as follows:

- All: Repeats all audio files in the Bluetooth audio player.
- Track: Repeats just the current file.
- Off: Does not repeat.
- If you skip the file forward or backward when the repeat play range in "Track", the repeat play range changes to "All".
- 2 Plays files in random order

Random play lets you playback files in random order within the current repeat range. Each touch of [Random] turns it on or off. •

Using AV input

You can display the video image output by the equipment connected to the navigation system. For details of the connection method, refer to Installation Manual.



CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Reading the screen



- 1 Current time
- 2 Source icon

Shows which source has been selected.

Using AV1

You can display the video image output by the equipment connected to video input 1.

- 1 Touch [AV1 Input] on the "AV System Settings" menu.
 - ⇒ For details, refer to Setting video input 1 (AV1) on page 141.
- 2 Display the AV operation screen.
 - ➡ For details of the operations, refer to Displaying the AV operation screen on page 69.
- 3 Tap [AV1] on the left edge of the screen.

The image is displayed on the screen.

4 Touch the screen to display the touch panel keys. ■

Using AV2

You can display the video image output by the equipment connected to video input 2.

- 1 Touch [AV2 Input] on the "AV System Settings" menu.
 - ⇒ For details, refer to Setting video input 2 (AV2) on page 142.
- 2 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.
- 3 Tap [AV2] on the left edge of the screen.

The image is displayed on the screen.

4 Touch the screen to display the touch panel keys. ■

Using the touch panel keys



- 1) Recalls equaliser curves
 - → For details, refer to Using the equaliser on page 145.
- 2 Hides the touch panel keys

Touching [Hide] hides the touch panel keys.

If you want to display the touch panel keys again, touch anywhere on the LCD screen.

Displaying the screen for navigation settings

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].

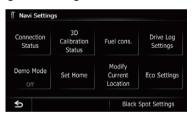
The "Settings Menu" screen appears.

- This can also be operated using the "Shortcut Menu" screen.
- 3 Touch [Navi Settings].



The "Navi Settings" menu appears.

4 Touch the item that you want to change the setting.



■ If you touch **≤**, the previous screen returns. ■

Checking the connections of leads

Check that leads are properly connected between the navigation system and the vehicle. Please also check whether they are connected in the correct positions.

- 1 Display the "Navi Settings" screen.
 - → For details, refer to Displaying the screen for navigation settings on this page.

2 Touch [Connection Status].

The "Connection Status" screen appears.



1) Speed Pulse

The Speed Pulse value detected by the navigation system is shown. "0" is shown while the vehicle is stationary.

② GPS Antenna

Indicates the connection status of the GPS aerial, the reception sensitivity, and from how many satellites the signal is received.

Colour	Signal com- munication	Used in posi- tioning
Orange	Yes	Yes
Yellow	Yes	No

- When the GPS aerial is connected to this navigation system, "OK" is displayed.
 - When the GPS aerial is not connected to this navigation system, "**NOK**" is displayed.
- ☐ If reception is poor, please change the installation position of the GPS aerial.

③ Handbrake

When the handbrake is applied, "On" is displayed. When the handbrake is released, "Off" is displayed.

(4) Illumination

When the headlights or small lamps of a vehicle are on, "On" is displayed. When the small lamps of a vehicle are off, "Off" is displayed. (If the orange/white lead is not connected, "Off" appears.)

5 Back Signal

When the gear lever is shifted to "**R**", the signal switches to "**High**" or "**Low**". (One of these is displayed depending on the vehicle.)

Checking sensor learning status and driving status

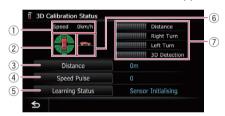
The navigation system can automatically use its sensor memory based on the outer dimensions of the tyres.

1 Display the "Navi Settings" screen.

→ For details, refer to Displaying the screen for navigation settings on the previous page.

2 Touch [3D Calibration Status].

The "3D Calibration Status" screen appears.



① Speed

Indicates the speed detected by the navigation system. (This indication may be different from the actual speed of your vehicle, so please do not use this instead of the speedometer.)

② Acceleration or deceleration/Rotational speed

Indicates acceleration or deceleration velocity of your vehicle. Also, rotational speed when your vehicle turns to left or right is shown.

③ Distance Indicates driving distance.

4 Speed Pulse Indicates the total number of speed pulses.

⑤ Learning Status Indicates the current driving mode.

6 Inclination

Indicates the degree of slope of the street that you are currently on.

⑦ Degree of learning

Sensor learning situations for distance (**Distance**), right turn (**Right Turn**), left turn (**Left Turn**) and 3D detection (**3D Detection**) are indicated by the length of bars.

When tyres have been changed or chains fitted, turning on the Speed Pulse allows the system to detect the fact that the tyre diameter has changed, and automatically replaces the value for calculating distance.

Clearing status

You can delete the learned results stored in "Distance", "Speed Pulse" or "Learning Status".

1 Touch [Distance] or [Speed Pulse].

The following message appears.



2 Touch [Yes].

Clears the results stored in "**Distance**" or "**Speed Pulse**".

3 Touch [Learning Status].

The following message appears.



4 Touch [All].

Clears all leaning results.

- □ Touch [All] for the following cases:
 - After changing the installation position of the navigation system
 - After changing the installation angle of the navigation system
 - After moving the navigation system to another vehicle
- If you touch [**Distance**], all learned results stored in "**Distance**" are cleared. ■

Using the fuel consumption function

Inputting the fuel consumption information for calculating the fuel cost

You can estimate the fuel cost to your destination by entering the fuel consumption information in the navigation system.

- → For details, refer to Setting a route to your destination on page 41.
- 1 Display the "Navi Settings" screen.
 - → For details, refer to Displaying the screen for navigation settings on page 121.
- 2 Touch [Fuel cons.].

The "Fuel Mileage Setting" screen appears.

3 Enter the fuel consumption information.



Enter the following items:

- Surface Road Fuel Mileage:
 Enter the fuel cost when you drive on ordinary roads.
- Motorway Fuel Mileage:

Enter the fuel cost when you drive on the motorway.

• Fuel Price Per Unit:

Enter the fuel unit price.

- Fuel Unit:
 Set the fuel unit.
- Currency: Set the unit of currency.
- The unit in "Surface Road Fuel Mileage" and "Motorway Fuel Mileage" depend on the one chosen in "Fuel Unit".
 - When "Fuel Unit" is set to "Litre".
 Enter how much fuel you need to travel 100 kilometres (60 miles).
 - When "Fuel Unit" is set to "Gallon".
 Enter how many kilometres (miles) you get to a gallon.

When all the items are entered, inputting the fuel consumption information is complete.

Calculating the fuel consumption

When you enter the fuelling information to the navigation system, and export the data to SD memory cards, you can check the fuel consumption information by using the utility programme AVIC FEEDS, which is available separately, on your PC.

 Up to 24 sets of data can be stored. You can also export the data, as described below.

If the entries reach the maximum number, a new entry will overwrite the oldest one.

These calculations are based only on the information that you provide and not on any data from the vehicle. The fuel mileage displayed is only a reference value, and does not guarantee the fuel mileage displayed can be obtained.

- 1 Display the "Navi Settings" screen.
 - ⇒ For details, refer to Displaying the screen for navigation settings on page 121.
- 2 Touch [Fuel cons.].

The "Fuel Mileage Setting" screen appears.

3 Touch [Fuel Price Calculation].



The "Fuel Price Calculation" screen appears.

4 Enter the fuel consumption informa-



Enter the following items:

Distance:

Enter the distance travelled since the previous fuelling.

- The distance is entered automatically only when the distance travelled since the previous fuelling is recorded.
- Fuel Pumped: Enter the amount of fuel pumped.

• Fuel Price Per Unit:

Enter the fuel unit price.

When all the items are entered, the fuel consumption is displayed next to "Fuel cons.".

5 Touch [OK].



The "Fuel Mileage Setting" screen appears.

Exporting the data of fuel cost information

Exporting the fuel cost data to an SD memory card is possible.

- The data stored in this navigation system will be cleared as exporting it to the SD memory card.
- If there is previous data in the SD memory card, the data is overwritten with new data.

Insert an SD memory card into the SD card slot.

For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

2 Display the "Navi Settings" screen.

⇒ For details, refer to Displaying the screen for navigation settings on page 121.

3 Touch [Fuel cons.].

The "Fuel Mileage Setting" screen appears.

4 Touch [Export].



After a message confirming whether to export the data appeared, exporting the data to the SD memory card starts.

The "Fuel Mileage Setting" screen appears when it is done.

Recording your travel history

Activating the track logger enables you to record your driving history (called "track log" below). You can review the travel history later.

If an SD memory card is inserted into the SD card slot, the track logs will be stored in the SD memory card.

1 Insert an SD memory card into the SD card slot.

For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

2 Display the "Navi Settings" screen.

→ For details, refer to Displaying the screen for navigation settings on page 121.

3 Touch [Drive Log Settings].

The "Drive Log Settings" screen appears.

4 Touch [Drive Log Settings].

Each time you touch the key changes the setting.

• Off (default):

You cannot export your track log to the SD memory card.

On:

You can store your track log to the SD memory card.

☐ While the setting is "On", the navigation system continues to store the track logs in the inserted SD memory card.

5 Touch [Type].

Each time you touch the key changes the setting.

• Private (default):

Changes the track log attribute to "Private".

• Business:

Changes the track log attribute to "Business".

• Other:

Changes the track log attribute to

"Other".

Using the demonstration guidance

This is a demonstration function for retail stores. After a route is set, touching this key starts the simulation of route guidance.

1 Display the "Navi Settings" screen.

⇒ For details, refer to *Displaying the screen for navigation settings* on page 121.

2 Touch [Demo Mode].

Each time you touch the key changes the setting.

- Off (default):
- The demonstration guidance is set off.
- On:

Repeats the demonstration guidance.

3 Display the map screen.

The demonstration guidance will begin.

Registering your home

Registering your home position saves time and effort. Also, routes to home positions can be calculated easily with a single touch of the key from the "**Destination Menu**". The registered home position can also be modified later.

1 Display the "Navi Settings" screen.

⇒ For details, refer to Displaying the screen for navigation settings on page 121.

2 Touch [Set Home].

The "**Set Home**" screen appears.

3 Touch [Home].



The "Select Search Method" screen appears.

- If you touch [**Phone#**], you can edit your home phone number.
 - □ [Phone#] is only available when you have already registered your home phone number.

4 Search for a location.

→ For details, refer to Chapter 6. After searching for a point, the map of the selected position is displayed.

5 Touch [OK].

The location is registered, and then the "**Set Home**" screen appears.

6 Touch [OK].

The registration is complete.

Correcting the current location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

- 1 Display the "Navi Settings" screen.
 - → For details, refer to Displaying the screen for navigation settings on page 121.
- 2 Touch [Modify Current Location].
- 3 Scroll to the position where you want to set, then touch [OK].
- 4 Touch the arrow key on the screen to set the direction, then touch [OK].

Changing the eco-function setting

You can change the eco-function setting.

- 1 Display the "Navi Settings" screen.
 - For details, refer to Displaying the screen for navigation settings on page 121.
- 2 Touch [Eco Settings].

The "Eco Settings" screen appears.

3 Touch each item.



Eco Score

- On (default): Displays "Eco Score".
- Off:

Hides "Eco Score".

→ For details, refer to Checking the eco-friendly driving status on page 32.

Eco Drive Level

On (default):

After you arrive the destination, a message appears and a beep sounds if the level of "Eco Drive Level" have increased or decreased

Off:

No message appears and no sound beeps when the vehicle reaches the destination.

⊃ For details, refer to *Displaying Eco Drive Level guidance* on page 33.

Rapid Start Warning

Off (default):

No message appears and no sound beeps when the vehicle experiences a sudden start.

• On:

A message appears and a sound beeps when the vehicle experiences a sudden start

 For details, refer to Sudden start alert on page 33.

Clear Eco Record

Fuel consumption data are cleared.

4 Touch [OK].

The settings are complete.

Displaying black spot notification icons

Selects whether to display or hide the black spot notification icons on the map.

Black spot notification icon



A CAUTION

- In some countries the use of systems that give drivers advance warning of safety cameras (which includes speed cameras and other type of cameras meant for traffic control) is prohibited. Therefore Pioneer strongly advices you to check:
 - —your local legislation and to use warning function for safety cameras only if this is allowed.
 - —when travelling abroad please make check in advance that the "speed warning system" in the countries you are driving in is allowed.
- Pioneer is no liable for any damage resulting from your use of warning function for safety cameras on this navigation system.
- 1 Display the "Navi Settings" screen.
 - ⇒ For details, refer to Displaying the screen for navigation settings on page 121.
- 2 Touch [Black Spot Settings].

The "Black Spot Settings" screen appears.

3 Touch [Black Spot Settings].



Each time you touch the key changes the setting.

- **On** (default):
 Displays black spot notification icons.
- Off:
 Hides black spot notification icons.

Black spot includes the following icons:

- Speed camera
- Red light camera
- Red light and speed cameras
- A: Level railway crossing
- 🎪: School zone 🔳

Displaying the screen for map settings

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].



The "Settings Menu" screen appears.

3 Touch [Map Settings].



The "Map Settings" screen appears.

4 Touch the item that you want to change the setting.



■ If you touch **≤**, the previous screen returns. ■

Setting the auto-zoom display

This setting enables switching to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of motorway or a junction.

1 Display the "Map Settings" screen.

➡ For details, refer to Displaying the screen for map settings on the previous page.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Close Up View].

Each time you touch the key changes the setting.

- On (default):
- Switches to an enlarged map.

Does not switch to an enlarged map.

Setting the speed limit display

Selects whether to display or hide the speed limit of the current road.



Speed Limit

1 Display the "Map Settings" screen.

⊃ For details, refer to *Displaying the screen for map settings* on the previous page.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Show Speed Limit].

Each time you touch the key changes the setting.

- Hide (default):
 - Hides the speed limit on the map.
 - view:

Displays the speed limit on the map.

Displaying the traffic notification icon

Selects whether to display or hide the traffic notification icons on the map when incidents occur on your route.

⇒ For details, refer to Checking traffic information manually on page 52.

1 Display the "Map Settings" screen.

➡ For details, refer to Displaying the screen for map settings on the previous page.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Show Traffic Incident].

Each time you touch the key changes the setting.

- View (default):
 Displays the icons on the map.
- Hide: Hides the icons on the map.

Displaying the Bluetooth connection icon

Selects whether to display or hide the icon for current status of the phone connection via Bluetooth wireless technology.

Bluetooth connection icon



1 Display the "Map Settings" screen.

➡ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Bluetooth Connected].

Each time you touch the key changes the setting.

View (default):

Displays the Bluetooth connection icon on the map.

Hide:

Hides the Bluetooth connection icon on the map. •

Setting the current street name display

Selects whether to display or hide the street name (or city name) that your vehicle is travelling along.

1 Display the "Map Settings" screen.

→ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Current Street Name].

Each time you touch the key changes the setting.

• View (default):

Displays the street name (or city name) on the map.

Hide:

Hides the street name (or city name) on the map.

Setting the display of icons of favourite locations

You can select whether to display the "Favourites" icon on the map.

- "Favourites" icons are displayed when the map scale is 20 kilometres (10 miles) or less.
- → For details, refer to Editing the favourite location in the list on page 46.

1 Display the "Map Settings" screen.

⇒ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Favourites Icon].

Each time you touch the key changes the setting.

On (default):

Displays the "Favourites" icon on the map.

Off

Hides the "Favourites" icon on the map.

Displaying the 3D landmarks

☐ 3D landmark only appears when the view mode is "3D View" and the map scale is set to 200 m (0.25 mile) or lower.

You can select whether to display the 3D land-mark on the map.

1 Display the "Map Settings" screen.

→ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "**Displayed Information**" screen appears.

3 Touch [3D Land Mark].

Each time you touch the key changes the setting.

• On (default):
Displays the 3D landmark on the map.

Off:

Hides the 3D landmark on the map.

Displaying manoeuvres

Selects whether to display or hide manoeuvres on the map.

Manoeuvres



1 Display the "Map Settings" screen.

For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Show Manoeuvre].

Each time you touch the key changes the setting.

• View (default):

Displays manoeuvres on the map.

Hide:

Hides manoeuvres on the map.

Displaying the fuel consumption information

Selects whether to display Eco-Meter, indicating the fuel consumption information, on the map.

☐ Eco-Meter appears when "2D View" or "3D View" is selected.

1 Display the "Map Settings" screen.

→ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Displayed Info].

The "Displayed Information" screen appears.

3 Touch [Show Eco Meter].

Each time you touch the key changes the setting.

- View (default): Displays Eco-Meter on the map.
- Hide:

Hides Eco-Meter on the map.

Displaying POI on the map

Displays icons for the surrounding facilities (POI) on the map.

☐ POI icons are not displayed when the map scale is 1 kilometre (0.75 mile) or more.

Displaying preinstalled POIs on the map

You can select up to 10 items from the subcategories or detailed categories.

1 Display the "Map Settings" screen.

⇒ For details, refer to *Displaying the screen for map settings* on page 127.

2 Touch [Overlay POI].

The "Overlay POI" screen appears.

3 Touch [Display] to change the setting to "On".



If you do not want to display the POI icon on the map, touch [Display] to turn it "Off". (Even if "Display" is turned "Off", the POI selection setting is retained.)

4 Touch [POI].

The "Overlay POI (Main Category)" screen appears.

5 Touch the main category you want.



A list of subcategories under the selected main category appears.

☐ Categories that are already selected will have a blue tick mark.

6 Touch the subcategory to display.



A red tick mark appears next to the selected category. To cancel the selection, touch the entry again.

If there are detailed categories within the subcategory, [**Detail**] is active. If you select the

subcategory such, all detailed categories within the subcategory is selected and [**Detail**] becomes inactive.

- If you touch [Detail], the detailed categories under the subcategory are displayed. Select a detailed category of your preference and touch [OK].
 - When only a few detailed categories are selected, a blue tick mark will appear next to the selected subcategory.

7 Touch [OK].

The "Overlay POI (Main Category)" screen returns.

If you want to select or deselect other items, repeat these steps as many as necessary.

8 To finish the selection, touch [OK] in the "Overlay POI (Main Category)" screen.

Displaying the customised POIs

Creating a customised POI is possible by using the utility programme AVIC FEEDS which is available separately, on your PC. (AVIC FEEDS will be available on our website.) Storing the customised POI properly and inserting the SD memory card enables the system to display the icons on the map screen.

☐ You can select up to 10 items from the subcategories or detailed categories.

1 Insert an SD memory card into the SD card slot.

⇒ For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.

2 Display the "Map Settings" screen.

⇒ For details, refer to Displaying the screen for map settings on page 127.

3 Touch [Overlay POI].

The "Overlay POI" screen appears.

Touch [Display] to change the setting to "On".



If you do not want to display the POI icon on the map, touch [Display] to turn it "Off". (Even if "Display" is turned "Off", the POI selection setting is retained.)

Touch [Custom POI].

The list of POI categories appears.

Touch the items you want to display.



To finish the selection, touch [OK].

Changing the view mode

lected for navigation guidance.

⇒ For details of the operation, refer to *Switch*ing the view mode on page 30.

Setting the map colour change between day and night

To improve the visibility of the map during the evening, you can set the timing for changing the combination of the map colour.

Display the "Map Settings" screen.

⇒ For details, refer to *Displaying the screen for* map settings on page 127.

Touch [Day/Night Display].

Each time you touch the key changes the setting.

- Automatic (default):
 - You can change the colours of a map between daytime and nighttime according to whether the vehicle lights are on or off.

The map is always displayed with daytime colours.

☐ To use this function with "Automatic", the orange/white lead of the navigation system must be connected correctly.

Changing the road colour

You can set the road colour to bluish or reddish.

- 1 Display the "Map Settings" screen.
 - ⇒ For details, refer to Displaying the screen for map settings on page 127.

Touch [Road Colour].

Each time you touch the key changes the setting.

- Red (default):
- Changes to red based road colours. Blue:

Changes to blue based road colours.

Changing the setting of navigation interruption screen

You can set whether to automatically switch to the navigation screen from the AV screen when your vehicle approaches a guidance point such as an intersection.

1 Display the "Map Settings" screen.

⇒ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [AV Guide Mode].

Each time you touch the key changes the setting.

On (default):

Switches from the AV operation screen to the map screen.

Off:

Does not switch the screen.

☐ This setting is effective only when "Close Up View" is set to "On". ■

Selecting the "Quick Access" menu

Select items to display on the map screen. In the list displayed on screen, the items with red tick marks are displayed on the map screen. Touch the item you want to display and then touch [**OK**] when a red check appears. You can select up to five items.

1 Display the "Map Settings" screen.

⇒ For details, refer to Displaying the screen for map settings on page 127.

2 Touch [Quick Access Selection].

The "Quick Access Selection" screen appears.

3 Touch the item that you want to set in "Quick Access".

You can select the following items:

- Settings marked with an asterisk (*) show that these are default or factory settings.
- **Z**: Registration*

Register information on the location indicated by the cursor to "**Favourites**".

⊃ For details, refer to *Registering a location* by scroll mode on page 46.

W: Vicinity Search*

Find POIs (Points Of Interest) in the vicinity of the cursor.

⊃ For details, refer to *Searching for a nearby POI* on page 38.

M: Overlay POI*

Displays icons for surrounding facilities (POI) on the map.

⊃ For details, refer to *Displaying POI on the map* on page 130.

Volume*

Displays the "Volume Settings" screen.

⊃ For details, refer to *Setting the Volume for Guidance and Phone* on page 136.

• **Till**: Contacts*

Displays the "Contacts List" screen.

⇒ For details, refer to *Calling a number in the phone book* on page 60.

Whole Route Overview

Displays the entire route (currently set) with the "Route Overview" screen.

⇒ For details, refer to *Displaying the route* overview on page 42.

• K: Traffic on Route

Displays a list of traffic information on the route.

➡ For details, refer to Checking traffic information on the route on page 51.

• **⚠**: Traffic List

Displays a list of traffic events information.

⇒ For details, refer to Checking all traffic information on page 50.

• S: Day/Night Display

Switches Day/Night Display setting.

⇒ For details, refer to Setting the map colour change between day and night on the previous page.

Favourites Icon

Switches **Favourites Icon** setting.

- ⇒ For details, refer to Setting the display of icons of favourite locations on page 129.
- Position Fix

When the vehicle position enters a different street parallel to the street you are travelling, the vehicle position returns to the street you are travelling.

4 To finish the setting, touch [OK].

Displaying the screen for system settings

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].

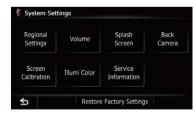
The "Settings Menu" screen appears.

- ☐ This can also be operated using the "Shortcut Menu" screen.
- 3 Touch [System Settings].



The "System Settings" screen appears.

4 Touch the item that you want to change the setting.



■ If you touch **5**, the previous screen returns.

Customising the regional settings

- 1 Display the "System Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for system settings* on this page.
- 2 Touch [Regional Settings].

The "Regional Settings" screen appears.



Selecting the language

You can set the languages used on the programme and voice guidance. Each language can be set separately.

- 1 Display the "System Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for* system settings on this page.
- **2 Touch [Regional Settings].** The "**Regional Settings**" screen appears.
- **3 Touch [Program Language].** The "**Select Program Language**" screen appears.
- 4 Touch the desired language.

After the language is selected, the previous screen returns.

5 Touch [Voice Language].

The "Voice Language Selection" screen appears.

6 Touch the desired language.

After the language is selected, the previous screen returns.

7 Touch [OK] on the "Regional Settings" screen.

A message confirming whether to restart the navigation system appears.

8 Touch [OK].

The navigation system restarts.

 If you press the MODE or HOME button, the setting procedure is cancelled.

Setting the time difference

Adjusts the system's clock. Set the time difference (+, -) from the time originally set in your navigation system.

1 Display the "System Settings" screen.

⊃ For details, refer to *Displaying the screen for* system settings on the previous page.

2 Touch [Regional Settings].

The "Regional Settings" screen appears.

3 Touch [Time].

The "Time Settings" screen appears.

4 To set the time difference, touch [+] or [-].



The time difference shows how many hours differ from the time originally set in the navigation system (Australian Eastern Standard Time) and the current location of your vehicle. Touching [+] or [-] changes the time difference display in half-hour increments. The time difference can be set from "-3" to "+3" hours.

5 Touch [Summer Time].

Summer time setting is off by default. Touch [**Summer Time**] to change the setting if you are in the summer time period.

6 Touch [Time format].

Each time you touch the key changes the setting.

• **24H** (default):

Changes the display to 24-hour format.

12H

Changes the display to 12-hour format with am/pm.

Changing the unit between km and miles

This setting controls the unit of distance and speed displayed on your navigation system.

1 Display the "System Settings" screen.

→ For details, refer to Displaying the screen for system settings on the previous page.

2 Touch [Regional Settings].

The "Regional Settings" screen appears.

3 Touch [km / mile].

A message confirming whether to change the setting appears.

4 Touch [Yes].

Each time you touch the key changes the setting.

- km (default): Shows distance in kilometres.
- mile:
- Shows distance in miles.

 Mile&Yard:
 - Shows distance in miles and yards.
- If you touch [No], the setting is cancelled.

Changing the virtual speed of the vehicle

When calculating the expected time of arrival and the travel time to the destination, set the average speed for the motorway or ordinary roads using [+] and [-].

1 Display the "System Settings" screen.

→ For details, refer to Displaying the screen for system settings on the previous page.

2 Touch [Regional Settings].

The "Regional Settings" screen appears.

3 Touch [Average Speed].

The "Average Speed Settings" screen appears.

4 Touch [+] or [-] to set the speed.



The estimated time of arrival may not be taken into account other parameters than this speed value.

5 Touch [OK].

The settings are complete.

Setting the Volume for Guidance and Phone

The sound volume for the navigation can be set. You can separately set the volume of the route guidance and the beep sound.

1 Display the "System Settings" screen.

→ For details, refer to Displaying the screen for system settings on page 134.

2 Touch [Volume].

The "Volume Settings" screen appears.

3 Touch [+] or [-] to set their volume.



On this screen, you can operate the following items.

Guidance

This setting controls the guidance volume of navigation.

□ When set to , guidance is output. When set to , no guidance is output.

· Phone Ringtone

This setting controls the incoming ring tone volume.

Phone Voice

This setting controls the incoming voice volume

- "Phone Ringtone" and "Phone Voice" adjustments are needed only when the mobile phone featuring Bluetooth technology is connected.
- □ Volume of the AV source is adjusted by the **VOL** (+/-) button or Multi-control.
 - → For details, refer to Checking part names and functions on page 11.
- If you touch the key next to "**Beep**", the setting is changed.
 - On (default):
 A beep sounds.
 - Off:
 The beep sound is muted.
- 4 To finish the setting, touch [OK].

Changing the preinstalled splash screen

You can change the splash screen to the other images preinstalled in the navigation system.

1 Display the "System Settings" screen.

⊃ For details, refer to *Displaying the screen for* system settings on page 134.

2 Touch [Splash Screen].

The "Select Splash Screen" screen appears.

3 Touch the image to use as the splash screen from the list.

The image is displayed on the screen.

4 Touch [OK].

The image is set as the splash screen, and the "System Settings" screen returns.

Changing to the splash screen stored in the SD memory card

You can change the splash screen to other images stored in the SD memory card. Copy your chosen image to the SD memory card, and select the image to import.

- Splash screen images should be used within the following formats:
 - BMP or JPEG files
 - Allowable horizontal and vertical size. are 2 592 pixels x 1 944 pixels or smaller
 - Allowable data size is 6 MB or smaller
- ☐ Proper compatibility with allowable files is not guaranteed.
- ☐ Imported original images will be stored in the built-in memory, but the ability to save these images cannot be guaranteed completely. If your original image data is deleted, insert the SD memory card again and re-import the original image.
- ☐ The maximum number of images, including the images in the built-in memory, that can be imported and displayed on the list is 200.
- 1 Create a folder named "Pictures" on the top-most directory of the SD memory card.
- 2 Store the picture files in the "Pictures" folder.
- 3 Insert an SD memory card into the SD card slot.
 - ⇒ For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.
- 4 Display the "System Settings" screen.
 - ⇒ For details, refer to Displaying the screen for system settings on page 134.
- 5 Touch [Splash Screen].

The "Select Splash Screen" screen appears.

6 Touch [Select from SD].

The "Select Splash Screen" screen appears.

Touch the image to use as the splash screen from the list.

The image is displayed on the screen.

Touch [OK].

The image is set as the splash screen, and the "System Settings" screen returns.

Images imported from the SD memory card are added to the list on "Select Splash Screen".

Setting for rear view camera

The following two functions are available. The rear view camera feature requires a separately sold rear view camera (e.g. ND-BC4). (For details, consult your dealer.)

Rear view camera

The navigation system features a function that automatically switches to the full-screen image of the rear view camera installed on your vehicle. When the gearstick is in the RE-VERSE (R) position, the screen automatically switches to full-screen rear view camera image.

Camera for Rear view mode

Rear view can be displayed at all times (e.g. when monitoring an attached trailer, etc.) as a split screen where map information is partially displayed. Please be aware that with this setting, camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

⇒ For details, refer to *Setting for rear view* camera on this page.



CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

☐ Immediately verify whether the display changes to a rear view camera image when the gearstick is moved to REVERSE (R) from another position.

When the screen changes to full-screen rear view camera image during normal driving, switch to the opposite setting in "Polarity".

1 Display the "System Settings" screen.

⇒ For details, refer to Displaying the screen for system settings on page 134.

2 Touch [Back Camera].

The "Back Camera Settings" screen appears.

3 Touch [Camera].

This changes the setting to "On".

☐ You can only switch to "**Rear View**" if this setting is "**On**".

4 Touch [Polarity] to select an appropriate setting for polarity.

Each time you touch [**Polarity**] switches between the following polarity:

- Battery: When the polarity of the connected lead is positive while the gearstick is in the REVERSE (R) position
- GND: When the polarity of the connected lead is negative while the gearstick is in the REVERSE (R) position

Adjusting the response positions of the touch panel (touch panel calibration)

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel screen.

Do not use a sharp pointed tool such as a ballpoint pen or a mechanical pen, which could damage the screen.

1 Display the "System Settings" screen.

⇒ For details, refer to Displaying the screen for system settings on page 134.

2 Touch [Screen Calibration].

A message confirming whether to start the calibration appears.

3 Gently touch the centre of + mark displayed on the screen.

The target indicates the order.

After you touch all marks, the adjusted position data is saved.

- ☐ Do not turn off the engine while saving the adjusted position data.
- If you press the MODE button, the previous adjustment position returns.
- If you press and hold the **MODE** button, the adjustment is cancelled.

Setting the illumination colour

The illumination colour can be selected from 8 different colours. Furthermore, the illumination colour can be switched between these 8 colours in order.

Selecting the colour from the preset colours

- 1 Display the "System Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for* system settings on page 134.

2 Touch [Illumi Color].

The "Illumination Color" screen appears.

3 Touch the colour you want.



Available options:

- Coloured keys: Selects the desired preset colour
- **Memory 1/Memory 2**: Colours registered in the memory
 - For details, refer to Creating a user-defined colour and storing it to memory on the next page.

- Scan: Shifts between the eight default colours in sequence gradually.
- Eco: The colours change in the order of white, red, amber, yellow, green, and blue as the number of points in the "Eco Score" increases.
 - ☐ The illumination lights in white when "Eco Score" is set to "Off" or when no route is set

Creating a user-defined colour and storing it to memory

You can create a user-defined colour and set it as the illumination colour

- 1 Display the "System Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for* system settings on page 134.
- 2 Touch [Illumi Color].

The "Illumination Color" screen appears.

- 3 Touch [Custom].
- The "Illumination Color" screen appears.
 - ☐ If [Scan] is set, [Custom] cannot be selected.
- 4 Touch [+] or [-] to adjust the values for Red, Green and Blue to create a favourite colour.



Watch the illumination of hardware keys while adjusting the colour.

Each time you touch [+] or [-] increases or decreases the value of the selected item. +31 to +00 is displayed as the value is increased or decreased.

An entry cannot be stored with all of the values set to "+00".

- 5 Touch [Memory 1] or [Memory 2] to store the illumination colour.
- 6 Touch [OK] to return to the previous screen.

Checking the version information

- 1 Display the "System Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for system settings* on page 134.
- **2 Touch [Service Information].** The "Service Information Screen" screen appears.
- 3 Check the version information.

Selecting the video for rear display

You can choose either to show the same image as the front screen or to show the selected source on the rear display.

- 1 Display the AV operation screen.
 - **⊃** For details of the operations, refer to *Displaying the AV operation screen* on page 69.
- 2 Tap on the left edge of the screen.
 - The appearance of this key changes according to the current setting.
 - While the tuner is receiving an emergency announcement, traffic announcement, or news programme, the current setting cannot be changed.

Each touch of thanges the settings as follows:

- Mirror AV: The video on the front screen of the navigation unit is output to the rear display
- DISC: The video and sound of the DVDs are output to the rear display
- iPod: The video and sound of the iPod are output to the rear display
- AV1: The video and sound of AV1 are output to the rear display

- AV2: The video and sound of AV2 are output to the rear display
- When "Mirror AV" is selected, the following restrictions are applied to rear display.
 - When selecting "Rear View" in the map display, nothing is displayed.
 - All sounds cannot be output for rear display.
 - When playing back video files on the external storage device (USB, SD), the video image is not output.
- ☐ When "**DISC**" is selected, the following restriction is applied to rear display.
 - When a CD or MP3/WMA/AAC disc is set in the built-in DVD drive, only the sound is output.
- When "iPod" is selected, the following restriction is applied to rear display.
 - The video image and sound are output only when the corresponding setting on "AV1 Input" is "iPod".
- When "AV1" or "AV2" is selected, the following restrictions are applied to rear display.
 - The video image and sound are output only when "AV1" or "AV2" has both video and sound.
 - The video image and sound are output only when the corresponding setting on "AV1 Input" or "AV2 Input" are "Video".

Adjusting the picture A CAUTION

For safety reasons, you cannot use some of these navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the handbrake. Refer to Important Information for the User (a separate manual).

You can adjust the picture for each source and rear view camera.

1 Press and hold the MODE button.

The "Picture Adjustment" screen appears.

2 Touch [+] or [–] to adjust the desired item.



- · Brightness: Adjusts the black intensity.
- Contrast: Adjusts the contrast.
- Colour: Adjusts the colour saturation.
- Colour Temp.: Adjusts the tone of colour (which colour is emphasised, red or blue).
- **Dimmer**: Adjusts the brightness of display.
- Touching [Camera] switches to the picture adjustment screen for the rear view camera.
- Touching [Source] while adjusting the rear view camera image returns you to the previous screen.
- ☐ The adjustments of "Brightness" and "Contrast" are stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). These are switched automatically depending on whether the vehicle's headlights are on or off.
- ☐ The adjustments of "Dimmer" is stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). "Dimmer" is switched automatically only when the value of nighttime is lower than the value of daytime.
- ☐ You cannot adjust "**Colour**" for the source without a video and navigation map display.
- The setting contents can be memorised separately for the following screen and the video image.
 - Audio source

- AM/FM/CD/ROM/iPod(Music)/SD (audio)/USB(audio)/Bluetooth audio/source off screen/menu screens/others
- Video source
 - AV1 and iPod(Video)
 - DVD-V and DivX
 - SD(Video) and USB(Video)
 - AV2(Video)
 - Rear view camera image
- Map screen
- ☐ The picture adjustment may not be available with some rear view cameras.
- Because of the LCD screen characteristics, you may not be able to adjust the screen at low temperatures.

3 Touch [+] or [–] to adjust the desired item.

Each touch of [+] or [-] increases or decreases the level of the desired item.

4 Touch 5.

The previous screen returns.

Displaying the screen for AV system settings

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].



The "Settings Menu" screen appears.

3 Touch [AV Settings].



The "AV System Settings" menu appears.

4 Touch the item that you want to change the setting.



■ If you touch **5**, the previous screen returns.

Setting video input 1 (AV1)

You can switch this setting according to the connected component.

- ☐ This setting applies to mini-jack input.
- 1 Display the "AV System Settings" screen.
 - → For details, refer to Displaying the screen for AV system settings on this page.

2 Touch [AV1 Input].

Each touch of [**AV1 Input**] changes the setting as follows:

- iPod: iPod connected with the USB Interface cable for iPod (CD-IU51V) (sold separately)
- · Video: External video component
- Off: No video component is connected.
- Use "AV1 Input" when connecting CD-RM10 (sold separately) through the external video component.

Setting video input 2 (AV2)

You can switch this setting according to the connected component.

This setting applies to RCA inputs (AUDIO INPUT and VIDEO INPUT) on the back of the system.

1 Display the "AV System Settings" screen.

→ For details, refer to Displaying the screen for AV system settings on the previous page.

2 Touch [AV2 Input].

Each touch of [**AV2 Input**] changes the setting as follows:

- Off: No video component is connected.
- Video: External video component

Changing the wide screen mode

1 Display the "AV System Settings" screen.

→ For details, refer to Displaying the screen for AV system settings on the previous page.

2 Touch [Wide Mode].

Each touch of [**Wide Mode**] changes the setting as follows:

• Full (full)

A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.

Cinema (cinema)

A picture is enlarged by the same proportion as "Full" or "Zoom" in the horizontal direction and by an intermediate proportion between "Full" and "Zoom" in the vertical direction; ideal for a cinema-sized picture (wide screen picture) where captions lie outside the frame.

Zoom (zoom)

A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized picture (wide screen picture).

· Normal (normal)

- A 4:3 picture is displayed normally, giving you no sense of disparity since its proportions are the same as that of the normal picture.
- ☐ You can only adjust "Wide Mode" when selecting an AV source with video.
- ☐ Different settings can be stored for each video source.
- ☐ The same setting is automatically applied for the following grouping.
 - DVD-V and DivX
 - AV1 and AV2
- When viewing videos, select an appropriate wide screen mode that matches its original aspect ratio to view it comfortably.
- Remember that use of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law.
- ☐ The navigation map and the rear view camera picture is always viewed at "Full".

Setting the rear output

The navigation system's rear output can be used for a full-range speaker or subwoofer connection. If you switch "Rear SP" to

"**Sub. W**", you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the navigation system is set for a rear full-range speaker connection ("**Full**").

- Both rear speaker leads output and RCA rear output are switched simultaneously in this setting. (When you use the product without RCA rear output, this setting only applies to the rear speaker leads.)
- "Rear SP" can be set only when the source is selected to "Off".

1 Display the "AV System Settings" screen.

⇒ For details, refer to Displaying the screen for AV system settings on the previous page.

2 Touch [Rear SP].

Each touch of [Rear SP] changes the settings as follows:

Full

When no subwoofer is connected to the rear output, select "**Full**".

Sub. W

When a subwoofer is connected to the rear output, select "**Sub. W**".

Switching the muting/ attenuation timing

You can mute the AV source volume or attenuate the output signal.

Even if this setting is "Off", the navigation system will mute or attenuate the AV source volume when the mute signal is output via MUTE lead.

1 Display the "AV System Settings" screen.

→ For details, refer to Displaying the screen for AV system settings on page 141.

2 Touch [Mute].

Each touch of [Mute] changes the settings as follows:

- **Guide/Tel**: The volume is muted or attenuated according to the following conditions.
 - When the navigation outputs the guidance voice.
 - When you use a mobile phone via Bluetooth technology (dialling, talking, incoming call).
- Tel: The volume is muted or attenuated when you use a mobile phone via Bluetooth technology (dialling, talking, incoming call).
- Off: The volume does not change.
- □ AV source volume returns to normal when the corresponding action ends.

Switching the muting/ attenuation level

You can select the muting/attenuation level of "**Mute**". This setting is also effective for a

mute signal that has been received from the MUTE lead connected to the navigation unit.

☐ This menu is not available when AV source is "**Off**".

1 Display the "AV System Settings" screen.

 For details, refer to Displaying the screen for AV system settings on page 141.

2 Touch [Mute Level].

Each touch of [**Mute Level**] changes the settings as follows:

- 20dB: The volume becomes 1/10.
- 10dB: The volume becomes 1/3.
- All: The volume becomes 0.
- When you select "All", no audio adjustments are possible during the sound is turned off.
- When you select "20dB" or "10dB", no audio adjustments are possible during the sound is attenuated.
- ☐ AV source volume returns to normal when the corresponding action ends.
- Even when a mute signal has been received from MUTE lead connected to the navigation unit, navigation voice guidance cannot be attenuated or muted.

Displaying your DivX VOD registration code

In order to play DivX VOD (video on demand) content on this navigation system, you first need to register the unit with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

☐ This feature is available when the selected source is **CD**, **ROM**, **DivX**, or **DVD-V**.

1 Display the "AV System Settings" screen.

→ For details, refer to Displaying the screen for AV system settings on page 141.

2 Touch [DivX® VOD].

The screen where you can choose to display a registration code or deregistration code is displayed.

☐ If a registration code has already been activated, it cannot be displayed.

3 Touch [Registration Code].

Your 10-digit registration code is displayed.

Make a note of the code as you will need it when you register with a DivX VOD provider.

Displaying your DivX VOD deregistration code

A registration code registered with a deregistration code can be deleted.

This feature is available when the selected source is CD, ROM, DivX, or DVD-V.

1 Display the "AV System Settings" screen.

⊃ For details, refer to *Displaying the screen for AV system settings* on page 141.

2 Touch [DivX® VOD].

The screen where you can choose to display a registration code or deregistration code is displayed.

If a registration code has not been activated, the deregistration code is not displayed.

3 Touch [Deregistration Code].

Your 8-digit deregistration code is displayed.

Make a note of the code as you will need it when you deregister with a DivX VOD provider.

Displaying the screen for AV sound settings

1 Press the HOME button to display the "Top Menu" screen.

2 Touch [Settings].



The "Settings Menu" screen appears.

3 Touch [AV Sound].



The "AV Sound Settings" screen appears.

- ☐ You cannot make adjustments in the following situations:
 - AV source is "Off".
 - During muting/attenuation

4 Touch the item that you want to change the setting.



If you touch 5, the previous screen returns.

Using balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

1 Display the "AV Sound Settings" screen.

⇒ For details, refer to Displaying the screen for AV sound settings on the previous page.

2 Touch [FAD/BAL].

When "Sub. W" is selected in "Rear SP", [Balance] will be displayed instead of [FAD/BAL] and front/rear speaker balance cannot be adjusted.

⊃ For details, refer to *Setting the rear output* on page 142.

3 Touch [▲] or [▼] to adjust front/rear speaker balance.

Each time you touch [▲] or [▼], the front/rear speaker balance moves towards the front or the rear.

"Front: 15" to "Rear: 15" is displayed as the front/rear speaker balance moves from front to rear.

Set "Front:" and "Rear:" to "0" when using a two-speaker system.

4 Touch [◀] or [▶] to adjust left/right speaker balance.

Each time you touch $[\blacktriangleleft]$ or $[\blacktriangleright]$, the left/right speaker balance moves towards the left or the right.



"**Left:** 15" to "**Right:** 15" is displayed as the left/right speaker balance moves from left to right.

Using the equaliser

The equaliser lets you adjust equalisation to match vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are seven stored equaliser curves that you can easily recall at any time. Here is a list of the equaliser curves:

Equaliser curve

S.Bass (Super Bass) is a curve in which only low-pitched sound is boosted.

Powerful is a curve in which low-pitched and highpitched sounds are boosted.

Natural is a curve in which low-pitched and highpitched sounds are slightly boosted.

Vocal is a curve in which the midrange, which is the human vocal range, is boosted.

Flat is a flat curve in which nothing is boosted.

Custom1 is an adjusted equaliser curve that you create. A separate custom curve can be created for each source.

Custom2 is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

- □ When "Flat" is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equaliser curves by switching alternatively between "Flat" and a set equaliser curve.
- ☐ You cannot select "Custom1" and "Custom2" when "Auto EQ" is "On".
 - → For details, refer to Using the auto-adjusted equaliser on page 147.

1 Display the "AV Sound Settings" screen.

→ For details, refer to Displaying the screen for AV sound settings on the previous page.

2 Touch [EQ].



3 Touch the equaliser you want.



If Auto EQ has been set to "On", an image corresponding to each equaliser curve you selected appears.



For details of the operations, refer to Adjusting the equaliser curve automatically (Auto EQ) on the next page.

Customising the equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjustments can be made with a 8-band graphic equaliser.

- ☐ This function is not available when "Auto EO" is "On".
 - ⇒ For details, refer to Using the auto-adjusted equaliser on the next page.

The difference between "Custom1" and "Custom2"

- A separate "Custom1" curve can be created for each source. If you make adjustments when a curve "S.Bass (Super Bass)", "Powerful", "Natural", "Vocal", "Flat", or "Custom1" is selected, the equaliser curve settings will be memorised in "Custom1".
- A "Custom2" curve can be created common to all sources. If you make adjustments when "Custom2" curve is selected, the "Custom2" curve will be updated.
- The "Custom1" curve is applied to each of the source selected, but you can apply the same curve to the following sources.
 - AM and FM
 - AV1 and AV2
 - CD, ROM, DVD-V, and DivX
 - SD and USB
 - ☐ The different curve can be memorised between **iPod** and **USB**.

1 Display the "AV Sound Settings" screen.

- **⊃** For details, refer to *Displaying the screen for AV sound settings* on page 144.
- 2 Touch [EQ].
- 3 Touch one of the keys to select a curve that you want to use as the basis of customising.
- 4 Touch [Customize].
- 5 Touch the frequency that you want to adjust the level.



6 Touch [▲] or [▼] to adjust the level of the equaliser band.

Each time you touch $[\blacktriangle]$ or $[\blacktriangledown]$, the level of the equaliser band increases or decreases.

Using the auto-adjusted equaliser

You can set the auto-adjusted equaliser to suit the vehicle's acoustics. To use this function, the vehicle's acoustics must be measured in advance

- ⇒ For details of the operations, refer to Adjusting the equaliser curve automatically (Auto EQ) on this page.
- ☐ To manually adjust the equaliser curve, set "Auto EO" to "Off".
- 1 Display the "AV Sound Settings" screen.
 - **⇒** For details, refer to *Displaying the screen for AV sound settings* on page 144.
- 2 Touch [EO].
- 3 Touch the key next to "Auto EQ" to turn the auto-adjusted equaliser on or off.
- 4 Select the equaliser curve.

Adjusting the equaliser curve automatically (Auto EQ)

By measuring the vehicle's acoustics, the equaliser curve can be adjusted automatically to suit the interior of the vehicle.



WARNING

A loud tone (noise) may be emitted from the speakers when measuring the vehicle's acoustics. Never perform the Auto EQ measurement while driving.



- Thoroughly check the conditions before performing Auto EQ, as the speakers may be damaged if this is performed under the following conditions:
 - When the speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
 - When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.

If the microphone for acoustical measurement (sold separately) is not placed in an appropriate location, the measurement tone may become loud and measurement may take a long time, resulting in battery drainage. Be sure to place the microphone in the specified location.

Before operating the Auto EQ function

- Perform Auto EQ in as quiet a place as possible, with the vehicle engine and air conditioning switched off. Also, cut power to car phones or mobile phones in the vehicle, or remove them from the vehicle before performing Auto EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing, etc.) may prevent correct measurement of the vehicle's acoustics.
- Be sure to perform Auto EQ using the microphone for acoustical measurement (sold separately). Using another microphone may prevent measurement, or result in incorrect measurement of the vehicle's acoustics.
- To perform Auto EQ, the front speakers must be connected.
- When this navigation system is connected to a power amp with input level control, Auto EQ may not be able to be performed if the power amp's input level is set below the standard level.
- When this navigation system is connected to a power amp with an LPF, turn the LPF off before performing Auto EQ. Also, set the cut-off frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The distance has been calculated by computer to provide the optimum delay to ensure accurate results. Do not change this value.
 - The reflected sound within the vehicle is strong and delays occur.
 - The LPF on active subwoofers or external amps delay the lower sounds.

- If an error occurs during measurement, a message appears and measurement is cancelled. Check the following before measuring the vehicle's acoustics.
 - Front speakers (left/right)
 - Rear speakers (left/right)
 - Noise
 - Microphone for acoustical measurement (sold separately)
 - Low battery

Performing Auto EQ

- Auto EQ changes the audio settings as follows:
 - "Auto EQ" on the "EQ Menu" screen is set to "On".
 - For details, refer to Using the auto-adjusted equaliser on the previous page.
 - The fader/balance settings return to the centre position.
 - → For details, refer to Using balance adjustment on page 145.
 - The equaliser curve switches to "Flat".
 - ⇒ For details, refer to Using the equaliser on page 145.
 - The front and rear speakers will automatically be adjusted to a high pass filter setting.
- Previous settings for Auto EQ will be overwritten.
- □ For AVIC-F30BT users Do not press the ≜ button to open or close the panel when you are using the microphone.

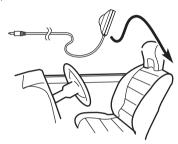
1 Stop the vehicle in a place that is quiet, close all the doors, windows and sun roof, and then turn the engine off.

If the engine is left running, engine noise may prevent correct Auto EQ.

☐ If driving restrictions are detected during measurement, measurement is cancelled.

2 Fix the microphone for acoustical measurement (sold separately) in the centre of the headrest of the driver's seat, facing forward.

The Auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat and perform Auto EQ.



3 Turn the ignition switch to ON or ACC.

If the vehicle's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct Auto FQ.

4 Turn off the AV source.

⊃ For details of the operations, refer to *Displaying the AV operation screen* on page 69.

5 Set the video setting for the rear display to "Mirror AV".

→ For details of the operations, refer to Selecting the video for rear display on page 139.

6 Display the "AV System Settings" screen.

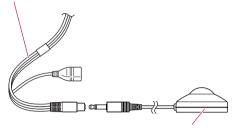
⊃ For details, refer to *Displaying the screen for AV system settings* on page 141.

7 Touch [Auto EQ Meas.].

The "Auto EQ Measurement" screen appears.

8 Plug the microphone into the mini-jack connector.

USB and mini-jack connector



Microphone for acoustical measurement (sold separately)

9 Touch [Start].

A 10-second countdown starts.

10 Exit the vehicle and keep the door closed until the countdown finishes.

When the countdown is over, a measurement tone (noise) is emitted from the speakers and the Auto EQ measurement begins.

11 Wait until the measurement is completed.

When Auto EQ is completed, a message is displayed indicating that the measurement is completed.

- If the vehicle's acoustics cannot be measured correctly, an error message will be displayed.
- ☐ The measurement time varies depending on the type of vehicle.
- □ To stop the measurement, touch [Stop].

12 Touch [OK].

13 Store the microphone carefully in the glove compartment or another safe place.

If the microphone is subjected to direct sunlight for an extended period of time, high temperatures may cause distortion, colour change or malfunction.

Using sonic centre control

Sound that is suited for the listening position can easily be created with this function.

1 Display the "AV Sound Settings" screen.

- ⇒ For details, refer to Displaying the screen for AV sound settings on page 144.
- 2 Touch [Sonic Center Control].
- 3 Touch [◄] or [▶] to select a listening position.
 - □ The larger the value of the range: "Left7" to "Right7" setting, the greater the delay of the speaker output.
 - When "Left" is set, the left speaker output is delayed. When "Right" is set, the right speaker output is delayed.

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Display the "AV Sound Settings" screen.

→ For details, refer to Displaying the screen for AV sound settings on page 144.

2 Touch [Loudness].

Each time you touch [**Loudness**], the level is selected in the following order:

Off — Low — Mid — High

Using subwoofer output

The navigation system is equipped with a subwoofer output mechanism, which can be turned on or off.

☐ This function is not available when "Sub Woofer" is "Off".

1 Display the "AV Sound Settings" screen.

→ For details, refer to Displaying the screen for AV sound settings on page 144.

2 Touch [Sub Woofer].

3 Touch [On].

The subwoofer output is turned on.



- If you touch [**Off**], the subwoofer output is turned off.
- 4 Touch [Reverse] or [Normal] to select the phase of subwoofer output.
- 5 Touch [+] or [-] next to "Level" to adjust the output level.

"+6" to "-24" is displayed as the level is increased or decreased.

6 Touch [◄] or [▶] next to "Frequency(Hz)" to select cut-off frequency.

Each time you touch [◄] or [▶], cut-off frequencies are selected in the following order:

50Hz — 63Hz — 80Hz — 100Hz — 125Hz

Only frequencies lower than those in the selected range are output from the subwoofer.

Using the high pass filter

When you cut lower sounds from the subwoofer output frequency, activate **HPF** (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

- 1 Display the "AV Sound Settings" screen.
 - **⊃** For details, refer to *Displaying the screen for AV sound settings* on page 144.
- 2 Touch [HPF].

Each time you touch [HPF] selects cut-off frequencies in the following order:

Off — 50Hz — 63Hz — 80Hz — 100Hz — 125Hz

Adjusting source levels

SLA (source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources

- ☐ Settings are based on the FM tuner volume level, which remains unchanged.
- ☐ You cannot select [SLA] when the FM tuner is selected as the AV source.
- 1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Display the "AV Sound Settings" screen.

- **⊃** For details, refer to *Displaying the screen for AV sound settings* on page 144.
- 3 Touch [SLA].
- 4 Touch [+] or [–] to adjust the source volume.

"+8dB" to "-8dB" is displayed as the source volume is increased or decreased.

The following AV sources are set to the same source level adjustment volume automatically.

- CD. ROM. and DivX
- SD and USB
- AV1 and AV2
- ☐ The different source volume level can be set between **iPod** and **USB**.

Enhancing bass (Bass Booster)

You can enhance bass sounds that are often muted by driving noise.

- 1 Display the "AV Sound Settings" screen.
 - ⇒ For details, refer to Displaying the screen for AV sound settings on page 144.
- 2 Touch [Bass Booster].
- 3 Touch [+] or [−] to adjust the range from 0 to 6. ■

Replicating the settings

You can import settings you have made on the utility programme AVIC FEEDS which is available separately to the navigation system.

- 1 Use AVIC FEEDS to replicate the settings and store them on an SD memory card
- 2 Insert an SD memory card into the SD card slot.
 - For details of the operation, refer to Inserting and ejecting an SD memory card on page 15.
- 3 Press the HOME button to display the "Top Menu" screen.
- 4 Touch [Settings].

The "Settings Menu" screen appears.

5 Touch [Setting Replicator].

A message confirming whether to update the settings appears.

6 Touch [Yes].

Update starts.

After the settings are updated, a message confirming whether to restart the navigation system appears.

7 Touch [OK].

The navigation system restarts.

Setting the safe mode

For safety reasons, you can limit the functions that are available while your vehicle is in motion.

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].

The "Settings Menu" screen appears.

3 Touch [Safe Mode].

Each time you touch the key changes the setting.

Downloaded from Caradio-Manual.com Manuals

• On (default):

Activates the safe mode function.

Off:

Deactivates the safe mode function.

Turning off the screen

By turning off the backlight of the LCD screen, you can turn off the screen display without turning off the voice guidance.

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].

The "Settings Menu" screen appears.

3 Touch [Screen Off].

The screen is turned off.

□ Touch anywhere on the screen to turn it back on.

Setting the anti-theft function

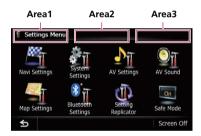
You can set a password for the navigation system. If the back-up lead is cut after the password is set, the navigation system prompts for the password at the time of next boot up.

Setting the password

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings].

The "Settings Menu" screen appears.

- ☐ This can also be operated using the "Short-cut Menu" screen.
- 3 Touch Area1, followed by Area2, and then touch and hold Area3.



When the AVIC-F930BT is being installed and a password has not been set up, the password setting screen is displayed when the front panel is detached and re-attached.

4 Touch [Set Password].

The password setting screen appears.

- 5 Enter the password you want to set.
 - ☐ 5 to 16 characters can be entered for a password.
- 6 Touch [OK].
- 7 Reenter the password to confirm the setting.
- 8 Touch [OK].

Password protection is applied.

If you want to change the password currently set, enter the current password and then enter the new one.

Entering the password

On the password input screen, you must enter the current password. If you enter an incorrect password three times, the screen is locked and operations using touch panel keys are disabled.

- 1 Enter the password.
- 2 Touch [OK].

If you enter the correct password, the navigation system will be unlocked.

Deleting the password

The current password can be deleted.

- 1 Press the HOME button to display the "Top Menu" screen.
- 2 Touch [Settings] on the "Top Menu".
- 3 Touch Area1, followed by Area2, and then touch and hold Area3.
- 4 Touch [Clear password].

The password setting screen appears.

- 5 Enter the current password.
- 6 Touch [OK].
- 7 Touch [Yes].

The message for deletion appears and then the current password is deleted.

Forgotten password

Contact the nearest authorised Pioneer Service Station. ■

Other functions

Returning the navigation system to the default or factory settings

You can return settings or recorded content to the default or factory settings. There are some methods to clear user data, and the situations and the cleared content are different for each method. For information regarding the content that is cleared by each method, see the list presented later.

Method 1: Remove the vehicle battery

This transforms the system into the same state as when the navigation system is uninstalled.

Method 2: Touch [Restore Factory Settings]

⇒ For details, refer to Restoring the default setting on this page.

Method 3: Touch [Clear user information] on the "Select Items to Reset" screen

⊃ For details, refer to *Returning the navigation* system to the initial state on this page.

Method 4: Touch [Reset] on the "Select Items to Reset" screen

⊃ For details, refer to *Returning the navigation* system to the initial state on this page.

Restoring the default setting

Resets various settings registered to the navigation system and restores them to the default or factory settings.

- Be sure to read "Setting items to be deleted" before you perform this operation.
 - → For details, refer to Setting items to be deleted on the next page.
- 1 Display the "System Settings" screen.
 - For details, refer to Displaying the screen for system settings on page 134.

2 Touch [Restore Factory Settings].

The message confirming whether to restore the settings appears.

3 Touch [Yes].

Returning the navigation system to the initial state

You can return settings or recorded content to the default or factory settings.

- ☐ Be sure to read "Setting items to be deleted" before you perform this operation.
 - **⊃** For details, refer to *Setting items to be deleted* on the next page.
- 1 Park your vehicle in a safe place and apply the handbrake.
- 2 Turn the ignition switch off and back on.

The navigation system restarts, and the splash screen appears.

- 3 Press and hold the MODE button and the TRK (◄◄) button while the splash screen appears.
 - ☐ For users of AVIC-F30BT, press the **MODE** button and the **TRK** (◄) button.

The "Select Items to Reset" screen appears.

4 Touch [Clear user information] or [Reset].



The message confirming whether to erase the data appears.

5 Touch [Yes].

The recorded contents are cleared.

Setting items to be deleted

The items to be deleted vary depending on the reset method. The items listed in the following table return to the default or factory settings. Any items not listed below will be retained.

- —: The setting will be retained.
- ✓: The setting will be cleared and returned to the default or factory settings.
- Bold indicates functions or command names.
- . Method 1: Remove the vehicle battery
- Method 2: Touch [Restore Factory Settings]
- Method 3: Touch [Clear user information] on the "Select Items to Reset" screen
- . Method 4: Touch [Reset] on the "Select Items to Reset" screen

Navigation functi	ons	Method 1	Method 2	Method 3	Method 4
	View mode and scale setting on the map	_	_	1	1
Map function	Direction of the map	_	_	✓	1
	Last cursor position on the map screen	_	✓	√	1
	Current route	/	_	✓	1
Route setting	Guidance state of the current route	_	_	√	1
· ·	Vehicle position information	_	_	1	1
	Options	_	1	1	1
	Keyboard	_	1	✓	✓
Others	Learnt data used in Learning Route	1	_	√	1
Do ationation	Point registered in Favourites	_	_	✓	_
Destination	History	_	_	1	_
NA C-44i	View Mode	_	_	✓	1
Map Settings	Other settings	_	✓	✓	1
	3D Calibration Status	_	_	_	_
	Drive Log Settings	_	_	✓	_
Navi Settings	Demo Mode	✓	✓	✓	1
Navi Settings	Set Home	_	_	✓	_
	Modify Current Location	_	_	✓	✓
	Other settings	_	✓	✓	1
	Program Language, Voice Language	_	_	√	1
System Settings	Time		_	1	1
	Back Camera	1	_	_	
	Other settings	_	1	1	1

Navigation functions		Method 1	Method 2	Method 3	Method 4
Bluetooth Set- tings	All settings (*1)	_	✓	✓	✓
Phone Menu	All settings (*1)	_	1	1	1
Other functions	Anti-theft password	_	_	_	_

^(*1) All stored data of 5 users is deleted.

AV functions		Method 1	Method 2	Method 3	Method 4
Volume		1	_	_	_
AV Cattings	Wide Mode, Mute	1	_	1	✓
AV Settings	Other settings	1	_	_	_
AV Sound	All settings	1	_	_	_
CD, ROM, DVD-V, DivX, FM, AM, Audio (Bluetooth audio)	All settings (*2)	√	_	_	_
SD, USB	All settings (*2)	1	_	✓	✓
Other functions	Picture Adjustment	1	_	_	_
Other functions	Tilt	/	_	_	_

^(*2) All settings including the setting on the "Function" menu are deleted.



Troubleshooting

If you have problems operating your navigation system, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

Problems with the navigation screen

Symptom	Cause	Action (Reference)
The power doesn't turn on. The navigation system doesn't oper-	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
ate.	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install a correct fuse with the same rating.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to off (ACC OFF). Then start the engine again, and turn the power to the navigation system back on.
You cannot position your vehicle on the map without a significant positioning error.	The GPS aerial is in an unsuitable location.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Check the GPS signal reception and the position of the GPS aerial if necessary.
	Obstacles are blocking signals from the satellites.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Check the GPS signal reception and the position of the GPS aerial if necessary, or continue driving until reception improves. Keep the aerial clean.
	The position of satellites relative to your vehicle is inadequate.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Continue driving until reception improves.
	Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.)	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Wait until reception improves.
	If a vehicle phone or mobile phone is used near the GPS aerial, GPS reception may be lost temporarily.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. When using a mobile phone, keep the aerial of the mobile phone away from the GPS aerial.

Symptom	Cause	Action (Reference)
You cannot position your vehicle on the map without a significant positioning error.	Something covers the GPS aerial.	Do not cover the GPS aerial with spray paint or vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.
	Signals from the vehicle's speed pulse are not being picked up properly.	Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
	The navigation system may not be mounted securely in your vehicle.	Check that the navigation system is securely mounted and, if necessary, consult the dealer that installed the system.
	The navigation system is installed with an extreme angle exceeding the installation angle limitations.	Confirm the installation angle. (The navigation system must be installed within the allowed installation angle. For details, refer to Installation Manual.)
	Indication of the position of your vehicle is misaligned after a U-turn or reversing.	Check whether or not the reverse gear signal input lead (violet) is connected properly. (The navigation system works properly without the lead connected, but positioning accuracy will be adversely affected.)
"Eco Graph" is not available.	The navigation system is unable to obtain past average fuel mileage data, so " Eco Graph " cannot be displayed.	Drive about 10 km on a road without obstructions. Then park your vehicle in a safe place, turn off the navigation system and turn the power to the navigation system back on.
The map colour does not switch automatically between daytime and nighttime.	"Day/Night Display" is set to "Day".	Check "Day/Night Display" setting and make sure "Automatic" is selected. (Page 132)
	The orange/white lead is not connected.	Check the connection.
The screen is too bright.	Picture quality adjustment of the display is not correct.	Adjust the picture quality. (Page 140)
The display is very dim.	The vehicle's light is turned ON, and "Automatic" is selected on "Day/Night Display".	Read about "Day/Night Display" setting and, if desired, select "Day". (Page 132)
	Picture quality adjustment of the display is not correct.	Adjust the picture quality. (Page 140)
No sounds of AV source are pro-	The volume level is low.	Adjust the volume level.
duced. The volume level will not rise.	The attenuator or mute is on.	Turn the attenuator or mute off.
	A speaker lead is disconnected.	Check the connection.
The volume of navigation guidance and beeps cannot be adjusted.	VOL (+/-) button or Multi-control is used to adjust the volume.	Turn the volume up or down using "Volume" on the "System Settings" menu. (Page 136)
The person on the other end of the phone call cannot hear the conversation due to an echo.	The voice from the person on the other end of the phone call is output from the speakers and then picked up by the microphone again, creating an echo.	Use the following methods to reduce the echo: —Lower the volume on the receiver —Have both parties pause slightly before speaking

Symptom	Cause	Action (Reference)
There's no picture.	The handbrake cord is not connected.	Connect the handbrake cord, and apply the handbrake.
	The handbrake is not applied.	Connect the handbrake cord, and apply the handbrake.
	The backlight of the LCD panel is turned off.	Turn on the backlight. (Page 151)
Rear display picture disappears.	The source disc being listened to in the navigation system has been ejected.	Before ejecting the disc, switch the source. This problem may occur when certain connection methods are used.
	There is a problem with the rear display, for example a faulty wiring connection.	Check the rear display and its connection.
	An AV source that cannot output to the rear display is selected.	Select an appropriate AV source.
Nothing is displayed and the touch panel keys cannot be	The setting for the rear view camera is incorrect.	Select the appropriate setting for the rear view camera.
used.	The gearstick was placed in [R] when the rear view camera was not connected.	Select the correct polarity setting for "Back Camera". (Page 137)
There is no response when the touch panel keys are touched, or a different key responds.	The touch panel keys deviate from the actual positions that respond to your touch for some reason.	Perform touch panel calibration. (Page 138)
The external storage device (USB, SD) cannot be used.	The USB storage device has been removed immediately after plugging it.	Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to off (ACC OFF). Then start the engine again, and turn the power to the navigation system back on.

Problems in the AV screen

	•	
Symptom	Cause	Action (Reference)
CD or DVD playback is not pos-	The disc is inserted upside down.	Insert the disc with the label upward.
sible.	The disc is dirty.	Clean the disc.
	The disc is cracked or otherwise damaged.	Insert a normal, round disc.
	The files on the disc are an irregular file format.	Check the file format.
	The disc format cannot be played back.	Replace the disc.
	The loaded disc is a type this system cannot play.	Check what type of disc it is. (Page 171)
The screen is covered by a caution message and the video cannot be shown.	The handbrake lead is not connected or applied.	Connect the handbrake lead correctly, and apply the handbrake.
	The handbrake interlock is activated.	Park your vehicle in a safe place and apply the handbrake.

Symptom	Cause	Action (Reference)
No video output from connected equipment.	"AV1 Input" or "AV2 Input" setting is incorrect.	Correct the settings. (Page 120)
No video output from connected iPod.	The connection of the USB interface cable for iPod is incorrect.	Connect both the USB plug and the RCA cable side. (If only one of these connection has been made, the iPod will not work properly.) (Page 19)
The audio or video skips.	The navigation system is not firmly secured.	Secure the navigation system firmly.
No sounds are produced.	Cables are not connected correctly.	Connect the cables correctly.
The volume level will not rise.	The system is performing still, slow motion, or frame-by-frame playback with DVD-Video.	There is no sound during still, slow motion, or frame-by-frame playback with DVD-Video.
	The system is paused or performing, fast reverse or forward during the disc playback.	For the media other than music CD (CD-DA), there is no sound on fast reverse or forward.
The icon \circ is displayed, and operation is not possible.	The operation is not compatible with the video configuration.	This operation is not possible. (For example, the DVD playing does not feature that angle, audio system, subtitle language, etc.)
The picture stops (pauses) and the navigation system cannot be operated.	The reading of data is impossible during disc playback.	Stop playback once, and start playback again.
The picture is stretched, with incorrect aspect ratio.	The aspect setting is incorrect for the display.	Select the appropriate setting for that image. (Page 142, Page 98)
A parental lock message is displayed and DVD playback is not possible.	Parental lock is on.	Turn parental lock off or change the level. (Page 98)
Parental lock for DVD playback cannot be cancelled.	The code number is incorrect.	Input the correct code number. (Page 98)
Playback is not with the audio language and subtitle language settings selected in "DVD/DivX® Setup".	The DVD playing does not feature dialogue or subtitles in the language selected in "DVD/DivX® Setup".	Switching to a selected language is not possible if the language selected in "DVD/DivX® Setup" is not recorded on the disc. (Page 97)
The picture is extremely unclear/distorted and dark during playback.	The disc features a signal to prohibit copying. (Some discs may have this.)	Since the navigation system is compatible with the copy guard analogue copy protect system, the picture may suffer from horizontal stripes or other imperfections when a disc with that kind of protection signal is viewed on some displays. This does not mean the navigation system is malfunctioning.
iPod cannot be operated.	The iPod is frozen.	Reconnect the iPod with the USB interface cable for iPod. Update the iPod software version.
	An error has occurred.	Reconnect the iPod with the USB interface cable for iPod. Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to off (ACC OFF). Then start the engine again, and turn the power to the navigation system back on. Update the iPod software version.

Problems with the phone screen

Symptom	Cause	Action (Reference)
the touch panel keys for dialling	Your phone is out of range for service.	Retry after re-entering the range for service.
are inactive.	The connection between the mobile phone and the navigation system cannot be established now.	Perform the connection process.

If the screen becomes frozen...

Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to off (ACC OFF). Then start the engine again, and turn the power to the navigation system back on.

•

Messages and how to react to them

The following messages may be displayed by your navigation system. Refer to the table below to identify the problem, then take the suggested corrective action.

There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

Messages for navigation functions

Message	Cause	Action (Reference)
Route calculation was not possible.	Route calculation has failed be- cause of a malfunction in map data, software, or hardware.	Change the destination. Consult the Pioneer Local dealer if this message persists.
Route calculation not possible: destination is too far.	The destination is too far.	Set a destination closer to the starting point.
Route calculation not possible: destination is too close.	The destination is too close.	Set a destination farther from the starting point.
Route calculation not possi- ble: navigation cannot be pro- vided around destination or starting point.	The destination, waypoint(s), or starting point are in an area where no road exists (e.g. a mountain) and the route calculation is impossible.	Set a destination and waypoint(s) on roads. Reset the destination after you drive the vehicle to any road.
Route to destination cannot be calculated.	The destination or waypoint(s) are in an isolated island, etc. without a ferry and the route calculation is impossible. If there is no road connected to your starting point or destination, this message will appear.	Change the destination.
Failed to make the route profile.	In rare cases, a route calculation error may occur.	Retry. Consult the Pioneer Local dealer if this message persists.
No picture folder. Save jpeg file to /Pictures/ folder	Cannot load the image because "Pictures" folder is not found in the inserted external storage device.	Use appropriate data and store it correctly. (Page 137)
	"Pictures" folder exists on the SD memory card but there is no loadable data in the folder.	Use appropriate data and store it correctly. (Page 137)
Data Read error.	Failed to read the data for some reason.	Use appropriate data and store it correctly. (Page 137)
The file is corrupt	The data is damaged or an attempt was made to set an image file that was not made to specifications as the splash screen.	Use appropriate data and store it correctly. (Page 137)

Message	Cause	Action (Reference)
Connection failed.	The mobile phone's Bluetooth wireless technology is turned off.	Activate the target phone's Bluetooth wireless technology.
	The mobile phone is paired (connected) with another device.	Cancel the pairing (connection) and retry.
	Rejection has been received from the mobile phone.	Operate the target phone and accept the connection request from the navigation system. (Furthermore, check the connection settings on your mobile phone.)
	The target mobile phone cannot be found.	Check whether your mobile phone is activated and, whether the distance to your mobile phone is not too far.
Could not find any available phone.	No available phone exists in the sur- roundings when the system searches for connectable mobile phones featuring Bluetooth wireless technology.	Activate the target phone's Bluetooth wireless technology. Check whether your mobile phone is activated and, whether the distance to your mobile phone is not too far.
Registration failed.	The mobile phone's Bluetooth wire- less technology is turned off during the registration step.	Keep turning the target phone's Bluetooth wireless technology on during the registration.
	Rejection by the mobile phone has received.	Operate the target phone and accept the registration request from the navigation system (Furthermore, check the connection settings on your mobile phone.)
	Registration step has failed for some reason.	Retry the registration and if the registration still fails, try registering using your mobile phone.

Messages for audio functions

When problems occur with AV source playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service centre. The messages in "()" will appear on the rear display.

Built-in DVD drive

Message	Cause	Action (Reference)
Reading error	Dirty	Clean the disc.
(ERROR-02-XX)	Scratched disc	Replace the disc.
	The disc is loaded upside down.	Check that the disc is loaded correctly.
Playback error. Please remove the disc.	There is an electrical or mechanical error.	Replace the disc. Set the ACC to off and then set it to on again.
Region code cannot be matched (DIFFERENT REGION DISC)	The disc does not have the same region number as the navigation system.	Replace the DVD-Video with one bearing the correct region number.
Unreadable disc	This type of disc cannot be played by the navigation system.	Replace the disc with one the navigation system can play. (Page 174, Page 190)
Playback error due to irregu- lar temperature. Please re- move the disc. (THERMAL PROTECTION IN MOTION)	The temperature of the navigation system is out of the normal operating range.	Wait until the unit's temperature returns to within normal operating limits.
Tracks that cannot be played back will be skipped (FILE SKIPPED)	Files that are protected by digital rights management (DRM).	The protected files are skipped.
Cannot play back all tracks (PROTECTED DISC)	All the files on the inserted disc are secured by DRM.	Replace the disc.
Flash write error. Unable to write to flash memory. (CAN NOT SAVE DATA)	The playback history for VOD contents cannot be saved for some reason.	Retry. If the message appears frequently, consult your dealer.
Your device is not authorised to play this protected DivX video. (YOUR DEVICE IS NOT AUTHORIZED TO PLAY THIS DivX PROTECTED VIDEO)	The device does not match the device registered with the VOD provider. VOD content cannot be played back.	Check whether this device has been registered with the VOD provider.
Video resolution not sup- ported. (VIDEO RESOLUTION NOT SUPPORTED)	High definition (HD) DivX video cannot be played.	Create playable one and retry.

SD/USB/iPod

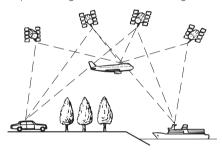
Message	Cause	Action (Reference)	
Tracks that cannot be played back will be skipped	Files that are protected by digital rights management (DRM).	The protected files are skipped.	
	This type of file cannot be played by this unit.	Replace it with the playable file. (Page 174, Page 190)	

Message	Cause	Action (Reference)	
Cannot play back all tracks	All the files on the inserted external storage device are secured by DRM.	Store playable files.	
	All of the files cannot be played by this unit.	Replace it with the playable file. (Page 174, Page 190)	
USB flash drive was disconnected for device protection. Do not connect this USB flash	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.	
drive to the unit. To restart USB, restart the unit.	The connected USB storage device consumes more than 1 A (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to off, then back ACC to on or turn the ignition switch on and then connect the compliant USB storage device.	
	The USB interface cable for iPod is short-circuited.	Confirm that USB interface cable for iPod or USB cable is not caught in something or damaged.	
Authorization failure. iPod is not connected.	The iPod is not compatible with this navigation system.	Use an iPod of a compatible version.	
	Communication failure	Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. If the message appears frequently, consult your dealer.	

Positioning technology Positioning by GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 21 000 km, continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Positioning by dead reckoning

The built-in sensor in the navigation system also calculates your position. The current location is measured by detecting driving distance with the speed pulse, the turning direction with the gyro sensor and inclination of the road with the G sensor.

The built-in sensor can even calculate changes of altitude, and correct the discrepancies in the distance travelled caused by driving along winding roads or up slopes.

If you use this navigation system with connecting the speed pulse, the system will become more accurate than no connection of speed

pulse. So you connect the speed pulse without fail to get the accuracy of positioning.

- The position of the speed detection circuit vary depending on the vehicle model. For details, consult your authorised Pioneer dealer or an installation professional.
- Some types of vehicles may not output a speed signal while driving at just a few kilometres per hour. In such a case, the current location of your vehicle may not be displayed correctly while in traffic jam or in a car park.

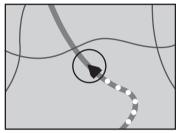
How do GPS and dead reckoning work together?

For maximum accuracy, your navigation system continually compares GPS data with your estimated position as calculated from the data of built-in sensor. However, if only the data from the built-in sensor is available for a long period, positioning errors are gradually compounded until the estimated position becomes unreliable. For this reason, whenever GPS signals are available, they are matched with the data of the built-in sensor and used to correct it for improved accuracy.

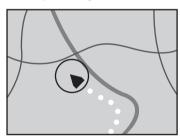
- ☐ If you use chains on your wheels for winter driving or put on the spare wheel, errors may suddenly increase because of difference in wheel diameter. Initialise the sensor status and it may recover the accuracy to normal condition.
 - **⊃** For details, refer to *Clearing status* on page 122.

Map matching

As mentioned, the positioning systems used by this navigation system are susceptible to certain errors. Their calculations may, on occasion, place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and can correct your position by adjusting it to a nearby road. This is called map matching.



With map matching



Without map matching

Handling large errors

Positioning errors are kept to a minimum by combining GPS, dead reckoning and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

When positioning by GPS is impossible

- GPS positioning is disabled if signals cannot be received from more than two GPS satellites
- In some driving conditions, signals from GPS satellites may not reach your vehicle.
 In this case, it is impossible for the system to use GPS positioning.



In tunnels or enclosed parking garages



Under elevated roads or similar structures



When driving among high buildings



When driving through a dense forest or tall trees

- If a car phone or mobile phone is used near the GPS aerial, GPS reception may be lost temporarily.
- Do not cover the GPS aerial with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals, so keep the aerial clear.
- ☐ If a GPS signal has not been received for a long time, your vehicle's actual position and the current position mark on the map may diverge considerably or may not be updated. In such case, once GPS reception is restored, accuracy will be recovered.

Conditions likely to cause noticeable positioning errors

For various reasons, such as the state of the road you are travelling on and the reception status of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

• If you make a slight turn.



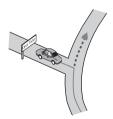
If there is a parallel road.



• If there is another road very nearby, such as in the case of an elevated motorway.



 If you take a recently opened road that is not on the map.



• If you drive in zigzags.



• If the road has a series of hairpin bends.



 If there is a loop or similar road configuration.



· If you take a ferry.



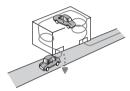
 If you are driving on a long, straight road or a gently curving road.



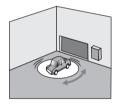
 If you are on a steep mountain road with many height changes.



• If you enter or exit a multi-storey car park or similar structure using a spiral ramp.



If your vehicle is turned on a turntable or similar structure.



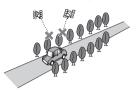
• If your vehicle's wheels spin, such as on a rough track or in snow.



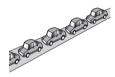
• If you put on chains, or change your tyres for ones with a different size.



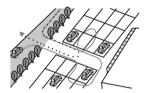
• If trees or other obstacles block the GPS signals for a considerable period.



• If you drive very slowly, or in a start-andstop manner, as in a traffic jam.



 If you join the road after driving around a large car park.



· When you drive around a roundabout.



 When starting driving immediately after starting the engine.

Route setting information Route search specifications

Your navigation system sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.



When a route is calculated, the route and voice guidance for the route are automatically set. Also, for day or time traffic regulations, only information about traffic regulations applicable at the time when the route was calculated is considered. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.

- The calculated route is one example of the route to your destination decided by the navigation system while taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to take. If you need to take a certain street, set a waypoint on that street.)
- If the destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set waypoints along the way.)
- During voice guidance, turns and intersections from the motorway are announced.
 However, if you pass intersections, turns, and other guidance points in rapid succession, some may delay or not be announced.
- It is possible that guidance may direct you off a motorway and then back on again.
- In some cases, the route may require you to travel in the opposite direction to your

- current heading. In such cases, you are instructed to turn around, so please turn around safely by following the actual traffic rules.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- When there is a traffic jam ahead, a detour route may not be suggested if driving through the traffic jam would still be better than taking the detour.
- There may be instances when the starting point, the waypoint and the destination point are not on the highlighted route.
- The number of roundabout exits displayed on the screen may differ from the actual number of roads.

Route highlighting

- Once set, the route is highlighted in bright colour on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Auto reroute function

- If you deviate from the set route, the system will re-calculate the route from that point so that you remain on track to the destination.
- This function may not work under certain conditions. ■

Handling and care of discs

Some basic precautions are necessary when handling your discs.

Built-in drive and care

Use only conventional, fully circular discs.
 Do not use shaped discs.





- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the built-in drive.
- When using discs that can be printed on label surfaces, check the instructions and the warnings of the discs. Depending on the discs, inserting and ejecting may not be possible. Using such discs may result in damage to this equipment.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- Do not attach commercially available labels or other materials to the discs.
 - The discs may warp making the disc unplayable.
 - The labels may come off during playback and prevent ejection of the discs, which may result in damage to the equipment.
- To clean a disc, wipe it with a soft cloth, moving outward from the centre.



 Condensation may temporarily impair the built-in drive's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs with a soft cloth.

- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.
- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear.

Playable discs DVD-Video and CD

DVD and CD discs that display the logos shown below generally can be played on this built-in DVD drive.

DVD-Video



CD





Appendix

- is a trademark of DVD Format/Logo Licensing Corporation.
- It is not possible to play DVD-Audio discs. This DVD drive may not be able to play all discs bearing the marks shown above.



AVCHD recorded discs

This unit is not compatible with discs recorded in AVCHD (Advanced Video Codec High Definition) format. Do not insert AVCHD discs. If inserted, the disc may not be ejected.

Playing DualDisc

- DualDiscs are two-sided discs that have a recordable CD for audio on one side and a recordable DVD for video on the other.
- Playback of the DVD side is possible with this navigation system. However, since the CD side of DualDiscs is not physically compatible with the general CD standard, it may not be possible to play the CD side with this navigation system.
- Frequent loading and ejecting of a DualDisc may result in scratches to the disc.
- Serious scratches can lead to playback problems on this navigation system. In some cases, a DualDisc may become stuck in the disc-loading slot and will not eject. To prevent this, we recommend you refrain from using DualDisc with this navigation system.
- Please refer to the manufacturer for more detailed information about DualDiscs.

Dolby Digital

This product will down-mix Dolby Digital signals internally and the sound will be output in stereo.

Manufactured under licence from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Detailed information for playable media

Compatibility

Common notes about disc compatibility

- Certain functions of this product may not be available for some discs.
- Compatibility with all discs is not guaranteed.
- It is not possible to playback DVD-ROM/ DVD-RAM discs.
- Playback of discs may become impossible with direct exposure to sunlight, high temperatures, or depending on the storage conditions in the vehicle.

DVD-Video discs

 DVD-Video discs that have incompatible region numbers cannot be played on this DVD drive. The region number of the player can be found on this product's chassis.

DVD-R/DVD-RW/DVD-R DL (Dual Layer) discs

- Unfinalised discs which have been recorded with the Video format (video mode) cannot be played back.
- Discs which have been recorded with the Video Recording format (VR mode) cannot be played back.
- DVD-R DL (Dual Layer) discs which have been recorded with Layer Jump recording cannot be played back.
- For detailed information about recording mode, please contact the manufacturer of media, recorders, or writing software.

CD-R/CD-RW discs

- Unfinalised discs cannot be played back.
- It may not be possible to playback CD-R/ CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, scratches or condensation on the lens of the built-in drive.
- Playback of discs recorded on a personal computer may not be possible, depending on the recording device, writing software, their settings, and other environmental factors.
- Please record with the correct format. (For details, please contact manufacturer of media, recorders, or writing software.)
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them.

Common notes about the external storage device (USB, SD)

- Do not leave the external storage device (USB, SD) in any location with high temperatures.
- Depending on the kind of the external storage device (USB, SD) you use, this navigation system may not recognise the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.
- There may be a slight delay when starting playback of files on an external storage device (USB, SD) with complex folder hierarchies.
- Operations may vary depending on the kind of an external storage device (USB, SD).
- It may not be possible to play some music files from SD or USB because of file characteristics, file format, recorded applica-

tion, playback environment, storage conditions, and so on.

USB storage device compatibility

- ⇒ For details about USB storage device compatibility with this navigation system, refer to Specifications on page 190.
- Protocol: bulk
- You cannot connect a USB storage device to this navigation system via a USB hub.
- Partitioned USB storage device is not compatible with this navigation system.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this navigation system may generate noise on the radio.
- Do not connect anything other than the USB storage device.

The sequence of audio files on **USB** storage device

For USB storage device, the sequence is different from that of USB storage device.

SD memory card and SDHC memory card

⇒ For details about SD memory card compatibility with this navigation system, refer to Specifications on page 190.

Handling guidelines and supplemental information

- This system is not compatible with Multi Media Card (MMC).
- Copyright protected files cannot be played back.

Notes specific to DivX files

- Only DivX files downloaded from DivX partner sites are guaranteed for proper operation. Unauthorised DivX files may not operate properly.
- DRM rental files cannot be operated until playing back is started.
- The navigation system corresponds to a DivX file display of up to 1590 minutes 43 seconds. Search operations beyond this time limit are prohibited.
- DivX VOD file playback requires supplying the ID code of this navigation system to the DivX VOD provider. Regarding the ID code, refer to Displaying your DivX VOD registration code on page 143.
- Plays all versions of DivX video (including DivX 6) with standard playback of DivX media files.
- For more details about DivX, visit the following site: http://www.divx.com/

DivX subtitle files

- Srt format subtitle files with the extension ".srt" can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.
- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognised.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognised.

- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronised.
- If multiple subtitles are programmed to display within a very short time frame, such as
 0.1 seconds, the subtitles may not be displayed at the correct time.

Media compatibility chart General

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage de- vice	SD memory card
File system	ISO9660 level 1, ISO9660 level 2, Romeo and Joliet	ISO9660 level 1, ISO9660 level 2, Romeo, Joliet and UDF 1.02	FAT16/FAT32	
Maximum number of folders	700		300	
Maximum number of files	999 3 500		2 500	
Playable file types	MP3, WMA, AAC, DivX		MP3, WMA, AAC, WAV, AVI, WMV, MPEG-4	

Note:

Maximum playback time of audio file stored in the external storage device (USB, SD): 7.5 h (450 minutes)

MP3 compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage de- vice	SD memory card		
File extension	.mp3					
Bit rate	8 kbps to 320 kbps (C	8 kbps to 320 kbps (CBR), VBR				
Sampling frequency	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis) 8 kHz to 48 kHz					
ID3 tag	ID3 tag Ver. 1.0, 1.1, 2	.1, 2.2, 2.3 ID3 tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4				

Notes:

- Ver. 2.x of ID3 tag is given priority when both Ver. 1.x and Ver. 2.x exist.
- The navigation system is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist

WMA compatibility

Media			USB storage de- vice	SD memory card		
File extension	.wma	.wma				
Bit rate	5 kbps to 320 kbps (CBR), VBR					
Sampling frequency	8 kHz to 48 kHz					

Note:

The navigation system is not compatible with the following: Windows Media $^{\rm fM}$ Audio 9 Professional, Lossless, Voice

WAV compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage de- vice	SD memory card	
File extension	WAV files on the CD-R/-RW, DVD-R/-RW/-R DL cannot be played.		.wav		
Format			Linear PCM (LPCM), IMA-ADPCM		
Sampling frequency			LPCM: 16 kHz to 48 kHz IMA-ADPCM: 22.05 kHz and 44.1 kHz		
Quantisation bits			LPCM: 8 bits and 16 bits MS ADPCM: 4 bits		
Note: The sampling frequency shown in the display may be rounded.					

AAC compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL		SD memory card		
File extension	.m4a					
Bit rate	8 kbps to 320 kbps (C	8 kbps to 320 kbps (CBR)				
Sampling frequency	8 kHz to 44.1 kHz	8 kHz to 44.1 kHz 8 kHz to 48 kHz				
Note: The navigation system p	olays back AAC files enco	oded by iTunes.	•			

DivX compatibility

Media	CD-R/-RW	DVD-R/-RW/-R DL	USB storage de- vice	SD memory card
File extension	.avi/.divx	.avi/.divx		-
Profile (DivX version)	Home Theater Ver. 3.11/Ver. 4.x/Ver. 5.x/ Ver. 6.x		DivX files on the external storage device (USB, SD) cannot be played.	
Compatible audio codec	MP3, Dolby Digital			
Bit rate (MP3)	8 kbps to 320 kbps (CBR), VBR			
Sampling frequency (MP3)	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)			
Maximum image size	720 pixels × 576 pixels		1	
Maximum file size	4GB]	

Notes:

- The navigation system is not compatible with the following:
 DivX Ultra format, DivX files without video data, DivX files encoded with LPCM (Linear PCM) audio codec
- Depending on the file information composition, such as the number of audio streams, there may be a slight delay in the start of playback on discs.
- If a file contains more than 4GB, playback stops before the end.
- Some special operations may be prohibited because of the composition of DivX files.
- Files with high transfer rates may not be played back correctly. The standard transfer rate is 4 Mbps for CDs and 10.08 Mbps for DVDs.

Video files compatibility (USB, SD)

File extension		.avi	.mp4, .m4v		.wmv
Format		MPEG-4	MPEG-4	H.264	WMV
Compatible video co	dec	MPEG-4	MPEG-4	H.264	WMV
Compatible audio codec		Linear PCM (LPCM), IMA- ADPCM MP3	AAC	AAC	WMA
Recommended video specifications	Image size: QVGA (320 pixels x 240 pixels)	Bit rate: 768 kbps Frame rate: 30 fps	Bit rate: 768 kbps Frame rate: 30 fps	Bit rate: 384 kbps Frame rate: 30 fps	Bit rate: 384 kbps Frame rate: 30 fps
Maximum bit rate:	Image size: WQVGA (400 pixels x 240 pixels)	Bit rate: 2 Mbps Frame rate: 30 fps	Bit rate: 2 Mbps Frame rate: 30 fps	Bit rate: 1 Mbps Frame rate: 30 fps	Bit rate: 768 kbps Frame rate: 30 fps
Image size: VGA (640 pixels x 480 pixels)		Bit rate: 1 Mbps Frame rate: 30 fps	Bit rate: 1 Mbps Frame rate: 30 fps	Bit rate: 576 kbps Frame rate: 30 fps	Bit rate: 576 kbps Frame rate: 30 fps
Maximum file size		2 GB			
Maximum playback time		150 minutes			

Common notes

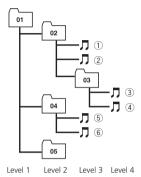
- The navigation system may not operate correctly, depending on the application used to encode WMA files.
- Depending on the version of Windows Media[™] Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of audio files encoded with image data.
- The navigation system is not compatible with packet write data transfer.
- This navigation system can recognise up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, the navigation system may try to display them with a reduced font size. However, the maximum number of the characters that you can display varies ac-

- cording to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording, compressed audio discs play with a short pause between songs.

Example of a hierarchy

The following figure is an example of the tier structure in the disc. The numbers in the figure indicate the order in which folder numbers are assigned and the order to be played back.

☐: Folder ☐: File





- This product assigns folder numbers. The user cannot assign folder numbers.
- If there is a folder that does not contain any
 playable file, the folder itself will display in the
 folder list but you cannot check any files in
 the folder. (A blank list will appear.) Also,
 these folders will be skipped without displaying the folder number.

Bluetooth



Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per

second. Bluetooth was launched by a special interest group (SIG) comprising Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2 000 companies worldwide.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Pioneer Corporation is under licence. Other trademarks and trade names are those of their respective owners.

SD and SDHC logo



SD Logo is a trademark of SD-3C, LLC.



SDHC Logo is a trademark of SD-3C, LLC.



microSD Logo is a trademark of SD-3C, LLC.



microSDHC Logo is a trademark of SD-3C, LLC.

WMA/WMV

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a licence from Microsoft Licensing, Inc.

DivX



DivX is a compressed digital video format created by the DivX video codec from DivX, Inc. This unit can play DivX video files recorded on CD-R/RW/ROM and DVD-R/RW/ROM discs. Keeping the same terminology as DVD video, individual DivX video files are called "Titles". When naming files/titles on a CD-R/RW or a DVD-R/RW disc prior to burning, keep in mind that by default they will be played in alphabetical order.

DivX®, DivX Certified® and associated logos are trademarks of DivX, Inc. and are used under licence.

ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX Certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in *Displaying your DivX VOD registration code*. Go to vod.divx.com for more information on how to complete your registration.

⇒ For details, refer to Displaying your DivX VOD registration code on page 143.

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes.

Detailed information regarding connected iPod devices

A CAUTION

- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using the navigation system. Please back up your iPod data regularly.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location with high temperatures.
- Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

For details, refer to the iPod manuals.

iPod and iPhone



"Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod or iPhone may affect wireless performance

iPhone, iPod, iPod classic, iPod nano, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

iTunes

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

Using the LCD screen correctly Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in possible damage to the LCD screen. When not using this navigation system, avoid exposing it to direct sunlight as much as possible.
- The LCD screen should be used within the temperature ranges shown in Specifications.
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen

- may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle.
 Please do not press strongly on it as this may damage it.
- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the touch panel functions. The LCD screen can scratch easily.

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the navigation unit, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of disturbances such as spots or coloured stripes.

Maintaining the LCD screen

- When removing dust from the LCD screen or cleaning it, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.

- At low temperatures, using the LED backlight may increase image lag and degrade
 the image quality because of the characteristics of the LCD screen. Image quality will
 improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorised Pioneer Service Station.

Display information

Destination Menu



		Page
Address		35
Return	Home	37
POI		
	Petrol Station	
	Open Parking Area	37
	Cash Dispenser	<i>31</i>
	Hotel or Motel	
	Spell Name	37
	Near Me	38
	Near Destination	38
	Around City	38
AVIC FEEDS		39
Favourites		39, 46
History		40, 49
Cancel Route		45
Traffic		50
Coordinates		40
Route Overview		42

Phone Menu



	Page
Dial Pad	59
Call Home	60
Contacts	60
Contacts Transfer	63
Received Calls	61
Dialled Calls	61
Missed Calls	61

Settings Menu



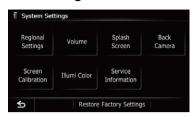
	Page
Navi Settings	121
System Settings	134
AV Settings	141
AV Sound	144
Map Settings	127
Bluetooth Settings	64
Setting Replicator	151
Safe Mode	151

Navi Settings menu



	Page
Connection Status	121
3D Calibration Status	122
Fuel cons.	123
Drive Log Settings	124
Demo Mode	125
Set Home	125
Modify Current Location	126
Eco Settings	126
Black Spot Settings	127

System Settings menu



		Page
Regional	Settings	
	Program Language Voice Language	134
	Time	135
	km / mile	135
	Average Speed	135
Volume		136
Splash Screen		136
Back Camera		137
Screen Calibration		138
Illumi Color		138
Service Information		139
Restore Factory Settings		153

Map Settings menu



		Page
Display	ed Info	
	Close Up View	128
	Show Speed Limit	128
	Show Traffic Incident	128
	Bluetooth Connected	129
	Current Street Name	129
	Favourites Icon	129
	3D Land Mark	129
	Show Manoeuvre	130
	Show Eco Meter	130
Quick Access Selection		133
Overlay POI		130
View Mode		30
Day/Night Display		132
AV Guide Mode		133
Road Colour		132

Bluetooth Settings menu



	Page
Connection	57
Registration	54
Device Name	64
Password	64
Bluetooth On/Off	65
Echo Cancel	65



	Page
Auto Answer Preference	65
Refuse All Calls	66
Clear Memory	66
Firmware update	66

AV System Settings menu



	Page
AV1 Input	141
AV2 Input	142
Wide Mode	142
Auto EQ Meas.	147
Mute	143
Mute Level	143
Rear SP	142
DivX® VOD	143

AV Sound Settings menu



	Page
FAD/BAL (Balance)	145
EQ	145
Loudness	149
Sub Woofer	149
HPF	150
SLA	150
Bass Booster	150
Sonic Center Control	149

Glossary

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4.

Aspect ratio

This is the width-to-height ratio of a TV screen. A regular display has an aspect ratio of 4:3. Wide screen displays have an aspect ratio of 16:9, providing a bigger picture for exceptional presence and atmosphere.

Bit rate

This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

Built-in sensor

The built-in sensor that enables the system to estimate your vehicle's position.

CD-DA

This stands for a general music CD (commercial-release audio CD). In this manual, this word is sometime used for a distinction between data CDs (which include compressed audio files) and general music CDs.

Chapter

Titles of DVD-Video are in turn divided into chapters which are numbered in the same way as the chapters of a book. With discs featuring chapters, you can quickly find a desired scene with chapter search.

Current location

The present location of your vehicle; your current location is shown on the map by a red triangle mark.

Destination

A location you choose as the end point of your journey.

DivX

DivX is a popular media technology created by DivX, Inc. DivX media files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

DivX Certified

DivX Certified products are officially tested by the creators of DivX and guaranteed to play all versions of DivX video, including DivX 6.

Favourites

A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS

Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance point

These are important landmarks along your route, generally intersections. The next guidance point along your route is indicated on the map by the yellow flag icon.

Home location

Your registered home location.

ID3 tag

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 tag editing functions. Although the tags are restricted by the number of characters, the information can be viewed when the track is played back.

ISO 9660 format

This is the international standard for the format logic of DVD/CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels:

Level 1:

The file name is in 8.3 format (the name consists of up to eight characters, half-byte English capital letters, half-byte numerals and the "_" sign, with a file-extension of three characters).

Level 2:

The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than eight hierarchies.

Extended formats

Joliet:

File names can have up to 64 characters. Romeo:

File names can have up to 128 characters.

JPEG

This stands for Joint Photographic Experts Group, and is an international still image compression standard.

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard established by a working group (MPEG) of the ISO (International Organization for Standardization). MP3 is able to compress audio data to about 1/10th the size of a conventional disc.

MPEG

This stands for Moving Pictures Experts Group, and is an international video image compression standard.

Multi-angle

With regular TV programmes, although multiple cameras are used to simultaneously shoot scenes, only images from one camera at a time are transmitted to your TV. Some DVDs feature scenes shot from multiple angles, letting you choose your viewing angle as desired.

Multi-audio (Multilingual dialogue)

Some videos feature dialogue recorded in multiple languages or audio recorded in multiple tracks. For example, dialogue in up to eight languages can be recorded on a single DVD-Video, letting you choose the language as desired.

Multi-session

Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than two sessions in one disc

Multi-subtitle

For example, subtitles in up to 32 languages can be recorded on a single DVD-Video, letting you choose as desired.

Packet write

This is a general term for a method of writing individual files to a CD-R, etc. whenever required, just as is done with files on floppy or hard disks.

Parental lock

Some DVD-Video discs with violent or adult-oriented scenes feature parental lock which prevents children from viewing such scenes. With this kind of disc, if you set the unit's parental lock level, playback of scenes inappropriate for children will be disabled, or these scenes will be skipped.

Phone book

An address book on user's phone is collectively referred to as "Phone book". Depending on the mobile phone, the phone book may be called a name such as "Contacts", "Business card" or something else.

Point Of Interest (POI)

Any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

Region number

DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player.

Route setting

The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route

The route marked out by the system to your destination. It is highlighted in bright colour on the map.

Title

DVD-Video discs have a high data capacity, enabling recording of multiple videos on a single disc. If, for example, one disc contains three separate videos, they are divided into title 1, title 2 and title 3. This lets you enjoy the convenience of title search and other functions.

Track log

Your navigation system logs routes that you already passed through if the track logger is activated. This recorded route is called a "track log". It is handy when you want to check a route travelled or if returning along a complex route.

VBR

VBR is short for variable bit rate. Generally speaking, CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to produce compression-priority data.

Voice guidance

The giving of directions by navigation voice while in guidance.

Waypoint

A location that you choose to visit before your destination; a journey can be built up from multiple waypoints and the destination.

WMA

WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later. ■

Specifications		Colour systemPAL/NTSC compatible Tolerable temperature range:	
General		Power on	
	14.41/ DC	Power off	
Rated power source		Angle adjustment	20 0 10 100 0
	(allowable voltage range:	AVIC-F30BT	0° to 22°
Facilities	10.8 V to 15.1 V DC)	AVIC-F930BT	
Earthing system	9 21	AVIC-1930B1	0
Maximum current co	'	Audio	
D:			E0.W. × 4
Dimensions (W × H × D):	Maximum power output	$50 \text{ W} \times 2 \text{ ch}/4 \Omega + 70 \text{ W} \times$
AVIC-F30BT			
D		O 1:	1 ch/2 Ω (for subwoofer)
Chassis	178 mm × 100 mm ×	Continuous power output	22 W \times 4 (50 Hz to 15 kHz,
	165 mm		5 %THD, 4Ω LOAD, Both
	170 mm × 96 mm × 20 mm		Channels Driven)
AVIC-F930BT		Load impedance	4Ω (4Ω to 8Ω [2Ω for 1 ch]
D			allowable)
Chassis	178 mm × 100 mm ×	Preout output level (max):	
	165 mm	AVIC-F30BT	
Nose	170 mm × 96 mm × 12 mm	AVIC-F930BT	2.2 V
Weight:		Preout impedance:	
AVIC-F30BT	2.25 kg	AVIC-F30BT	
AVIC-F930BT	1.96 kg	AVIC-F930BT	
NAND flash memory	4 GB	Equaliser (8-Band Graphic	: Equaliser):
,		Frequency	40 Hz/80 Hz/200 Hz/400 Hz/
Navigation			1 kHz/2.5 kHz/8 kHz/10 kHz
GPS receiver:		Gain	±12 dB
System	I.1. C/Acode GPS	Loudness contour:	
	SPS (Standard Positioning	Low	+3.5 dB (100 Hz), +3 dB
	Service)		(10 kHz)
Reception system	32-channel multi-channel	Mid	+ 10 dB (100 Hz), +6.5 dB
	reception system		(10 kHz)
Reception frequency		High	+ 11 dB (100 Hz), +11 dB
Sensitivity		· ·	(10 kHz)
Position update freq			(volume: -30 dB)
	Approx. once per second	HPF:	, ,
GPS aerial:	Approx. office per accord	Frequency	50 Hz/63 Hz/80 Hz/100 Hz/
	Micro strip flat aerial/right-		125 Hz
Aeriai	handed helical polarisation	Slope	12 dB/oct
Aerial cable		Subwoofer:	
Dimensions (W × H			50 Hz/63 Hz/80 Hz/100 Hz/
	33 mm × 15 mm × 36 mm	rioquorio,	125 Hz
Weight		Slope	
vveignt	13.1 g	Gain	
Display		Phase	
		Bass boost:	Normal/ Neverse
Screen size/aspect ratio:	7 in the collaboration	Gain	0 dB to +12 dB
AVIC-F30BT		Gairi	0 0 0 0 + 12 0 0
	6.1 inch wide/16:9	DVD Drive	
Effective display area:	457		DVD-Video, CD, MP3, WMA,
	157 mm × 83 mm	Oystelli	AAC, DivX system
	137 mm × 72 mm	Usable discs	
Pixels		Usable discs	
	TFT Active matrix driving		DVD-RW, CD-ROM, CD-DA,
Backlight	LED		CD-R/RW

Region number	. 4
Signal format:	
Sampling frequency	. 44.1 kHz/48 kHz/96 kHz
Number of quantisatio	n bits
	. 16 bit/20 bit/24 bit; linear
Frequency response	.5 Hz to 44 000 Hz (with DVD,
. , ,	at sampling frequency
	96 kHz)
Signal-to-noise ratio	.97 dB (1 kHz) (IEC-A net-
	work)
	(CD: 96 dB (1 kHz) (IEC-A
	network))
Dynamic range	.95 dB (1 kHz) (CD: 94 dB
,	(1 kHz))
Distortion	. ,,
Output level:	, , , , , , , , , , , , , , , , , , ,
Video	1.0 Vn-n/75 Q (+0.2 V)
Audio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Number of channels	
MP3 decoding format	
WMA decoding format	
AAC decoding format	.MPEG-4 AAC (only encoded
0	by iTunes):
	.m4a
DivX decoding format	. Home Theater Ver.3.11.
9	Ver.4.X, Ver.5.X, Ver.6.X:
	.avi, .divx
USB	
USB standard spec	. USB 2.0 High Speed
Max current supply	· .
File system	
USB class	
Decoding format	
•	H.264/MPEG4/WMV

```
Output power .....+4dBm Max.
                (Power class 2)
FM tuner
Frequency range ......87.5 MHz to 108.0 MHz
S/N: 30 dB)
0.1% (at 65 dBf, 1 kHz,
                mono)
Stereo separation .......45 dB (at 65 dBf, 1 kHz)
AM tuner
Frequency range ......531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity ......25 µV (S/N: 20 dB)
Signal-to-noise ratio ............... 62 dB (IEC-A network)
```

Specifications and design are subject to possible modifications without notice due to im-



Note

provements.

SD (AVIC-F30BT)

SD (AVIC-F930BT) microSD card, microSDHC card Compatible physical formatVersion 2.00 File systemFAT16. FAT32 Decoding formatMP3/WMA/AAC/WAVE/

SD memory card, SDHC memory card Compatible physical formatVersion 2.00 File systemFAT16, FAT32 Decoding formatMP3/WMA/AAC/WAVE/

VersionBluetooth 2.0+EDR

H.264/MPEG4/WMV

H.264/MPEG4/WMV

PIONEER CORPORATION

1-1, Shin-ogura, Saiwai-ku, Kawasaki-shi, Kanagawa 212-0031, JAPAN

PIONEER ELECTRONICS (USA) INC.

P.O. Box 1540, Long Beach, California 90801-1540, U.S.A.

TEL: (800) 421-1404

PIONEER EUROPE NV

Haven 1087, Keetberglaan 1, B-9120 Melsele, Belgium/Belgique TEL: (0) 3/570.05.11

PIONEER ELECTRONICS ASIACENTRE PTE. LTD.

253 Alexandra Road, #04-01, Singapore 159936

TEL: 65-6472-7555

PIONEER ELECTRONICS AUSTRALIA PTY. LTD.

5 Arco Lane, Heatherton, Victoria, 3202, Australia

TEL: (03) 9586-6300

PIONEER ELECTRONICS OF CANADA, INC.

300 Allstate Parkway, Markham, Ontario L3R 0P2, Canada

TEL: 1-877-283-5901

TEL: 905-479-4411

PIONEER ELECTRONICS DE MEXICO, S.A. de C.V.

Blvd.Manuel Avila Camacho 138 10 piso

Col.Lomas de Chapultepec, Mexico, D.F. 11000

TEL: 55-9178-4270

先鋒股份有限公司

總公司:台北市中山北路二段44號13樓

雷話: (02) 2521-3588

先鋒電子(香港)有限公司

香港九龍尖沙明海港城世界商業中心9樓901-6室

電話: (0852) 2848-6488

Published by Pioneer Corporation. Copyright © 2011 by Pioneer Corporation. All rights reserved.